



SSC

Staff Selection Commission

Multi-Tasking (Non-Technical)

Recruitment Exam 2022



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Compiled & Edited by
Arihant 'Expert Team'

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PAPER PATTERN

PAPER-I

| Subject | Maximum Marks | Time Duration | Total Duration/Timing for Visually Handicapped/ Cerebral Palsy |
|---|---------------|---------------|--|
| General Intelligence & Reasoning (25 Questions) | 25 | 90 Minutes | 120 Minutes |
| Numerical Aptitude (25 Questions) | 25 | | |
| General English (25 Questions) | 25 | | |
| General Awareness (25 Questions) | 25 | | |

PAPER-II

| Subject | Maximum Marks | Total Duration/ Timing for General Candidates | Total Duration/Timing for Visually Handicapped/ Cerebral Palsy |
|---|---------------|---|--|
| Short Essay/Letter in English or any language included in the 8th schedule of the Constitution. | 50 | 30 Minutes | 45 Minutes |

There will be negative marking of 0.25 marks for each wrong answer. Candidates are, therefore, advised to keep this in mind while answering the questions.

Solved Papers **2021**

SSC Multi-Tasking Exam

Solved Paper

02 November, 2021
III Shift

Instructions

- ✓ This paper contains 100 questions.
- ✓ This paper has 4 parts, Part I General English, Part II General Intelligence & Reasoning, Part III Numerical Ability, Part IV General Awareness
- ✓ Each question carries 1 mark.



General English

- Select the most appropriate words to fill in the blank.
By this time next week, we Shimla.
(a) will have reached
(b) would have reached
(c) would reach
(d) shall reach
- Select the most appropriate synonym of the given word.
Esteem
(a) Disrespect (b) Regard
(c) Disregard (d) Criticise
- The given sentence contains a grammatical error. Identify the segment that contains an error.
She didn't thank you for your help, but she may have done it.
(a) but she
(b) you for your help
(c) She didn't thank
(d) may have done it
- Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Madhu is only a daughter of her parents.
(a) the only
(b) only one
(c) No substitution required
(d) an only one
- Select the most appropriate word to fill in the blank.
The Covid-19 pandemic has hit many industries really
(a) hardly (b) hardy
(c) hard (d) well
- Select the most appropriate option to substitute the underlined segment in the given sentence.
It's not our book, it must be theres.
(a) theirs (b) their
(c) their's (d) theres'
- Select the most appropriate words to fill in the blank.
Please go with sister to the match.
(a) me and mine
(b) I and my
(c) me and my
(d) I and mine
- Select the most appropriate antonym of the given word.
Absurd
(a) Appropriate (b) Adequate
(c) Abrupt (d) Reasonable
- Select the most appropriate word which means the same as the group of words given.
Stop something from burning
(a) Prevent (b) Extinguish
(c) Torch (d) Scorch
- The given sentence contains a grammatical error. Identify the segment that contains an error.
Kalpana listens old Hindi film songs every evening at home.
(a) every evening
(b) film songs
(c) Kalpana listens old Hindi
(d) at home
- Select the most appropriate meaning of the given idiom.
Cover up
(a) Put a carpet under
(b) Ignore insults made
(c) Hide or conceal
(d) Close something forever
- Choose the correctly spelt word.
(a) Bileive (b) Bilive
(c) Believe (d) Beleive
- Select the most appropriate word which means the same as the group of words given.
Confirm or support something
(a) Collaborate (b) Corroborate
(c) Cooperate (d) Consider
- Choose the correctly spelt word.
(a) Closhare (b) Klashur
(c) Closure (d) Klousur
- Select the most appropriate meaning of the given idiom.
Make up with (someone)

- (a) Close or ignore the difference with (someone)
 (b) Compensate the loss to (someone)
 (c) Pick a quarrel with (someone)
 (d) understand (someone)
16. Select the most appropriate antonym of the given word.
 Difference
 (a) Similarity (b) Contrast
 (c) Distinction (d) Acceptance
17. Select the most appropriate synonym of the given word.
 Frigid
 (a) Warm (b) Freezing
 (c) Amicable (d) Moderate
18. Select the most appropriate option to substitute the underlined segment in the given sentence.
 Sahana worked late last night and could be able to finish her homework.
 (a) can able to (b) can finish
 (c) could be (d) could
19. The given sentence contains a grammatical error. Identify the segment that contains an error.
 Judy solved the difficult problem by her own without anyone's help.

- (a) without anyone's help
 (b) by her own
 (c) Judy solved
 (d) the difficult problem

20. Select the most appropriate word to fill in the blank.
 The 21st Kargil Vijay Diwas (Victory Day) was on 26th July across the country.
 (a) concluded (b) celebrated
 (c) forgotten (d) attended

Directions (Q. Nos. 21-25) *In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.*

According to a news report, schools are setting up adequate facilities and taking (1)..... to restart learning on campus hoping to reopen schools later, if not sooner. (2)..... schools are preparing themselves to restart, most parents are still not sure of sending their (3)..... to school. Parents of primary school children are particularly concerned about their children's (4)..... to health risks. Parents, in general, say that they have always tried to keep their

children's away from (5)....., like mobile phones and tablets, but the current Covid-19 situation has forced the children into online learning, and they spend long hours in front of the screens.

21. Select the most appropriate option to fill in blank no. 1.
 (a) steps (b) tests
 (c) conditions (d) screening
22. Select the most appropriate option to fill in blank no. 2.
 (a) While (b) Whether
 (c) Despite (d) Because
23. Select the most appropriate option to fill in blank no. 3.
 (a) students (b) drivers
 (c) children (d) teachers
24. Select the most appropriate option to fill in blank no. 4.
 (a) experience (b) exposure
 (c) suffering (d) taking
25. Select the most appropriate option to fill in blank no. 5.
 (a) lessons (b) products
 (c) electronics (d) devices



General Intelligence & Reasoning

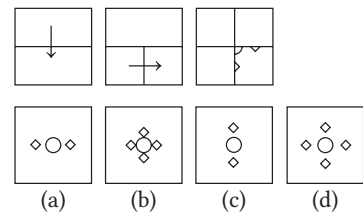
26. Select the correct combination of mathematical signs to sequentially replace the * signs and to balance the given equation.
 $12 * 6 * 54 * 6 * 7 = 70$
 (a) $\times - + +$ (b) $+ + \times -$
 (c) $+ + - \times$ (d) $- + + \times$
27. Five persons, A, B, C, D, E and sitting around a circular table facing towards the centre.
 1. A is the neighbour of E and D.
 2. B is second to the left of D.
 Who is to the immediate right of B?
 (a) A (b) C
 (c) D (d) E
28. Two statements are given, followed by four conclusions numbered I, II, III and IV.
 Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements No fish is a pen.
 All keys are pens.

Conclusions

- I. No key is a pen.
 II. No pen is a key.
 III. Some pens are keys.
 IV. Some keys are fishes.
 (a) Both Conclusions I and IV follow.
 (b) Only Conclusion III follows.
 (c) Both Conclusions I and II follow.
 (d) Only Conclusion I follows.
29. In a code language, 'AEROPLANE' is written as 'CCTMRJCLG'. How will 'CHOPPER' be written in the same language?
 (a) EFQRNCT (b) EJQRRTGT
 (c) EFQNRCT (d) AJMRNGP
30. 'Pressure' is related to 'Pascal' and 'Electricity' is related to 'Watt' in the same way as 'Heat' is related to
 (a) Ohm (b) Volt (c) Joule (d) Bar
31. In a code language, 'GOODLUCK' is written as 'MEWNFQQI'. How will 'FORTUNE' be written in the same language?
 (a) GPWVTQH (b) HQTVQHB
 (c) QTHDVHJ (d) PGWTQVH

32. A paper is folded and cut as shown below. How will it appear, when unfolded?



33. Which letter-cluster from the options will replace the question mark (?) to complete the given series?
 ASDF, BUGJ, CWJN, ?
 (a) DYMR (b) DYKQ
 (c) DXKO (d) DXLQ
34. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
 ABRUPT : BZUOUN :: SUDDEN : ?
 (a) TSGZJH (b) URGFJP
 (c) URFGJP (d) TSAHJH

35. Which two signs should be interchanged to make the given equation correct?

$$48 \div 12 \times 3 + 5 - 4 = 21$$

- (a) \div and \times (b) $-$ and $+$
(c) \times and $+$ (d) $-$ and \times
36. 'IPL' is related to 'Cricket' in the same way as 'Wimbledon' is related to '.....'.

- (a) Football (b) Tennis
(c) Hockey (d) Badminton

37. If 'CAPACITY' is coded as '81' and 'VOLUME' is coded as '91', then how will 'AMOUNT' be coded?

- (a) 84 (b) 87
(c) 86 (d) 85

38. If 'DONKEY' is coded as '88' and 'SPARROW' is coded as '79', then how will 'PEGION' be coded?

- (a) 73 (b) 96
(c) 85 (d) 91

39. Two statements are given, followed by two conclusions numbered I, II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements

Some chairs are windows.
All windows are boards.

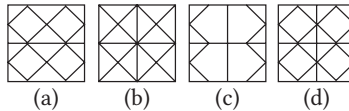
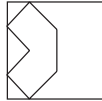
Conclusions

- I. All chairs are boards.
II. All boards are windows.
(a) Neither Conclusion I nor II follows
(b) Both Conclusions I and II follow
(c) Only Conclusion I follows
(d) Only Conclusion II follows

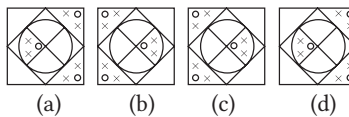
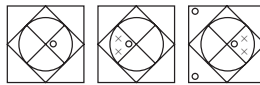
40. Which number from the options will replace the question mark (?) in the following series?

- 2, 4, 8, 32, 256, ?
(a) 8192 (b) 4096
(c) 2048 (d) 1024

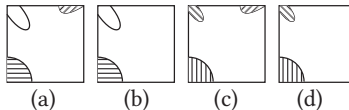
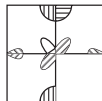
41. Select the option in which the following figure is embedded (rotation is not allowed).



42. Which figure from the options will replace the question mark (?) in the following series?



43. Identify the figure that completes the given pattern.



44. Select the set in which the numbers are related in the same way as the numbers of the following set.

(12, 30, 204)

- (a) (9, 12, 225) (b) (11, 15, 236)
(c) (4, 12, 28) (d) (15, 20, 265)

45. Six persons, Vinay, Madhav, Nilesh, Sagar, Arvind, Rajesh are standing in two rows facing towards each other such that three persons are in a row.

1. Nilesh is between Arvind and Sagar.

2. Nilesh is not facing Vinay.

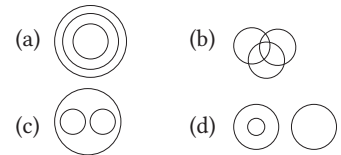
3. Madhav is facing Arvind.

What is Rajesh's position?

- (a) Facing towards Vinay
(b) Between Vinay and Madhav
(c) Between Vinay and Arvind
(d) Facing towards Sagar

46. Select the Venn diagram that best illustrates the relationship between the following.

Tigers, Reptiles, Tortoises



47. Select the correct mirror image of the given figure, when the mirror is placed to the right side of the figure.

ANTONYMS

- (a) $\Sigma\text{MYIOTIA}$ (b) $\Sigma\text{MYOITIA}$
(c) ANTONYMS (d) $\Sigma\text{WYNO.LNV}$

48. Select the number pair in which the two numbers are related in the same way as the two numbers of the following number pair.

6 : 85

- (a) 7 : 112 (b) 9 : 181
(c) 5 : 50 (d) 8 : 114

49. Which number from the options will replace the question mark (?) in following series?

3, 13, 53, 213, ?

- (a) 942 (b) 853 (c) 640 (d) 1065

50. Select the option that arranges the following words in a logical and meaningful order.

1. Pupa 2. Egg
3. Adult 4. Larva
(a) 4, 2, 3, 1 (b) 2, 1, 4, 3
(c) 2, 4, 1, 3 (d) 4, 2, 1, 3



Numerical Ability

51. A retailer bought 250 kg of a cereal and sold it at a profit to the extent of what he paid for 160 kg. What is his profit percentage?

(a) 32 (b) 64
(c) 36 (d) 18

52. The father of a girl is three years older than his mother. Six years ago, the average age of the girl and her parents was 32 yr and the age of the father was twice the present age of his daughter. What is the present age (in years) of the mother?

(a) 48 (b) 42 (c) 45 (d) 49

53. The ratio of two numbers is 4 : 5. If one is subtracted from the first number and two is added to the second number, then the ratio becomes 3 : 4. What will be the ratio, when eight and four are respectively added to the first and the second number?

(a) 2 : 3 (b) 8 : 9
(c) 6 : 7 (d) 1 : 5

54. The value of $120 \div \left[\frac{2}{3} \times \left(1 - \frac{2}{5} \right) \times 5 \right] + \left[\frac{9}{8} \text{ of } \frac{4}{3} \div \frac{3}{4} \text{ of } \frac{2}{3} \right]$ is

(a) 62 (b) 65
(c) 63 (d) 60

55. What is the range of the distribution of a variable which takes the ten values.
17, 18, 27, 11, 24, 21, 34, 21, 17, 32, ?

(a) 23 (b) 17
(c) 21 (d) 15

56. The average of ten numbers is A . If c is subtracted from each number, except the tenth and $(c - 1)$ is subtracted from the tenth number, then what will be the new average?

(a) $A - c + 0.1$ (b) $A - c$
(c) $A - c + 1$ (d) $A - (0.1)c + 0.1$

57. The total surface area of a hemisphere is very nearly equal to that of an equilateral triangle. The side of the triangle is how many times (approximately) of the radius of the hemisphere?

(a) $\left(\frac{8\pi}{\sqrt{3}} \right)^{0.5}$ (b) $\left(\frac{4\pi}{3} \right)^{0.5}$
(c) $(2\pi\sqrt{3})^{0.5}$ (d) $(4\pi\sqrt{3})^{0.5}$

58. Two cyclists start simultaneously from two points A and B , their destinations being B and A , respectively. After crossing each other, they precisely take 2 h 33 min 36 s and 1 h 26 min 24 s respectively to reach their destinations. What is the ratio of the speed of the first to that of the second cyclist?

(a) 2 : 3 (b) 3 : 2 (c) 4 : 3 (d) 3 : 4

59. The fourth proportional of 18, 27, 68 is

(a) 136 (b) 170
(c) 204 (d) 102

60. By what percentage is the percentage of the number of vowels in the word CONSONANT less than the percentage of consonants in it?

(a) 33.33 (b) 200
(c) 66.67 (d) 50

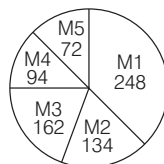
61. Y takes five days more than X to finish a work. Working together, they finish the work in six days. In how many days can Y finish it working alone?

(a) 16 (b) 12
(c) 15 (d) 10

Directions (Q. Nos. 62-64) Study the pie-chart and answer the questions that follow.

The number of people applying for a passport from a city was monitored and it was found that the numbers (in multiples of hundred) during the first five months of 2019 were as follows January (M1)-248, February (M2)-134, March (M3)-162, April (M4)-94, May(M5)-72. These have been represented through the given pie chart.

The number of people (in multiples of hundred applying for a passport from a city during the first five months of 2019.



62. The number of people in M5 is what percentage (correct up to two decimal places) of that of the two months M3 and M4 combined?

(a) 20.12 (b) 24.07
(c) 28.13 (d) 21.24

63. What is the central angle (to the nearest degree) of the sector corresponding to M1?

(a) 104° (b) 117°
(c) 132° (d) 126°

64. If the number of people during M2 and M5 had respectively, been 50% less more than what has been presented in the pie chart, then what would be the central angle (nearest to degrees) of the sector corresponding to M5?

(a) 57 (b) 65 (c) 63 (d) 52

65. The speed of light is very nearly equal to 3×10^{17} nanometre per second. How much time (in seconds) approximately, does it take light to travel from the moon to the Earth, the average distance between them being 384000 km? (1 nanometer = 10^{-9} metre)

(a) 38.4 (b) 12.8 (c) 3.84 (d) 1.28

66. When a rectangle is divided into three equal parts, each of them turns out to be a square of area 16 cm^2 . What is the perimeter (in cm) of the rectangle?

(a) 64 (b) 16 (c) 32 (d) 48

67. Two inlet pipes can separately fill a cistern completely in 8 h and 10 h, respectively. They are operated for 2 h, after which the second pipe is closed and an outlet pipe which can drain out water from the full cistern in 20 h is opened. How much time will it take to fill the cistern completely from the instant of opening to outlet pipe?

(a) 7 h (b) 8 h
(c) 7 h 20 min (d) 8 h 40 min

68. Simplify the following expression

$$45 \div 3 \times \frac{2}{3} + 1\frac{1}{3} \text{ of } 6\frac{2}{8} - 4\frac{1}{8} \\ \frac{1}{2} \left[\left(2\frac{1}{4} + 1\frac{1}{2} \right) \div \left(\frac{1}{15} + \frac{1}{3} - \frac{9}{10} \right) \right]$$

(a) $-\frac{4}{9}$ (b) $-\frac{23}{6}$ (c) $\frac{68}{5}$ (d) $-\frac{8}{9}$

69. The interest compounded annually, on a sum of ₹ 3240 after two years is ₹ 370. What is the rate of interest, correct up to two decimal places?

(a) 5.26% (b) 4.67%
(c) 5.56% (d) 4.05%

70. The HCF of two 2-digit numbers is 19 and their sum is 152. What is their difference?
 (a) 19 (b) 38
 (c) 57 (d) 76
71. A certain sum was invested on simple interest for a period of seven years. During the period of the sixth and the seventh years combined, the interest earned was ₹ 292. If the maturity amount is ₹ 3942, then what is the rate percentage of the interest?
 (a) 5 (b) 2
 (c) 6.25 (d) 2.5
72. An article, whose list price was ₹ 720, was subject to two successive discounts of 20% and 10%. What is the amount (in ₹) of discount that a customer would get while purchasing the article?
 (a) 198 (b) 190.8
 (c) 201.6 (d) 216
73. If a shopkeeper purchases a certain number of items for a certain sum and sells a fraction of the said number for the same amount, then his profit is 300%. What is the fraction?
 (a) $\frac{1}{4}$ (b) $\frac{1}{3}$ (c) $\frac{1}{6}$ (d) $\frac{1}{2}$
74. A bats woman missed her century by four runs in an innings, in which the scoring shorts in the form of sixes, fours, threes, twos and single, were in the proportion 1 : 3 : 2 : 7 : 10. How many runs did she score in single?
 (a) 20 (b) 16
 (c) 10 (d) 12
75. The area (in cm^2) of a sector of a circle of radius 2 cm is $\frac{4\pi}{5}$. What is the central angle (in degrees) of the sector?
 (a) 60 (b) 75
 (c) 36 (d) 72



General Awareness

76. With which of the following countries is the 'Navanna' festival associated?
 (a) Sri Lanka (b) Bhutan
 (c) Nepal (d) Bangladesh
77. In which of the following years was Bahadur Shah II deposed by the British and exiled to Rangoon?
 (a) 1698 (b) 1798
 (c) 1857 (d) 1834
78. What is the strength of Maharashtra in the Lok Sabha as of September 2020?
 (a) 48 (b) 35
 (c) 56 (d) 39
79. Chutka Atomic Power is situated in which of the following states?
 (a) Haryana
 (b) Gujarat
 (c) Madhya Pradesh
 (d) Rajasthan
80. Who among the following was the first woman commando trainer in India?
 (a) Avani Chaturvedi
 (b) Dmyanti Beshra
 (c) Dr. Seema Rao
 (d) Rani Rampal
81. Who among the following former Indian cricketers was appointed as the head coach of Uttarakhand Cricket Team in June 2020?
 (a) Rahul Dravid
 (b) Wasim Jaffer
 (c) Sachin Tendulkar
 (d) Akash Chopra
82. In which of the following years was the Reserve Bank of India nationalised?
 (a) 1935 (b) 1949
 (c) 1927 (d) 1965
83. 'Kafull' is a delicacy of which of the following states cuisine?
 (a) Punjab (b) Assam
 (c) Sikkim (d) Uttarakhand
84. In which of the following sections of the Punjab Reorganisation Act, 1966 is Chandigarh defined as a Union Territory?
 (a) Section 3 (b) Section 6
 (c) Section 4 (d) Section 1
85. Who among the following was the chief economic advisor to the Government of India as of August 2020?
 (a) Krishnamurthy Subramanian
 (b) Ajay Bhushan Pandey
 (c) Atanu Chakraborty
 (d) Rajeev Kumar
86. are the oldest living tree species on Earth.
 (a) Lone Cypress
 (b) Redwood tree
 (c) Tree of Life
 (d) Bristlecone Pines
87. Which of the following is the highest mountain in Bhutan?
 (a) Gangkhar Puensum
 (b) Kula Kangri
 (c) Jomolhari
 (d) Gipmochi
88. In which of the following states is Pichola Lake located?
 (a) Sikkim
 (b) Manipur
 (c) Rajasthan
 (d) Maharashtra
89. Which of the following Articles of the Constitution of India deals with the duties and powers of the Comptroller and Auditor-General of India?
 (a) Article 234
 (b) Article 149
 (c) Article 189
 (d) Article 354
90. Which of the following diseases is caused by fungus?
 (a) Ringworm (b) Diarrhoea
 (c) Small pox (d) Polio
91. A/an is any substance that causes our immune system to produce antibodies against it.
 (a) protein (b) glucose
 (c) platelet (d) antigen
92. What is the full form of OCD?
 (a) Obesity-Compulsive Disorder
 (b) Obsession Controlling Device
 (c) Obesity-Controlling Device
 (d) Obsessive-Compulsive Disorder
93. Who among the following is the author of 'Vishesh : Code To Win'?
 (a) Vishesh Bharguvanshi
 (b) Chetan Anand
 (c) Nirupama Yadav
 (d) Ashish Ray

94. World Cup-winning goalkeeper Iker Casillas announced his retirement from football in August 2020. To which of the following countries does he belong?
(a) Spain (b) France
(c) Australia (d) Canada
95. Anil Prakash Joshi received the Padma Bhushan Award 2020 in the field of
(a) social work (b) arts
(c) public affairs (d) medicine
96. Who among the following has been appointed as the Chairman of the National Bank for Agriculture and Rural Development (NABARD) in May 2020?
(a) KV Kamath
(b) GR Chintala
(c) Shaji KV
(d) PVS Suryakumar
97. Indian Universities Commission was set up in which of the following years?
(a) 1902 (b) 1897
(c) 1882 (d) 1909
98. On which of the following dates is International Tiger Day observed?
(a) 12th May (b) 10th January
(c) 5th November (d) 29th July
99. In which of the following years was the National Archives of India established?
(a) 1991 (b) 1891
(c) 1876 (d) 1956
100. With which of the following states is the dance form 'Povadas' associated?
(a) Odisha
(b) Bihar
(c) Maharashtra
(d) West Bengal

Answer Sheet

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1 (a) | 2 (b) | 3 (d) | 4 (a) | 5 (c) | 6 (a) | 7 (c) | 8 (d) | 9 (b) | 10 (c) |
| 11 (c) | 12 (c) | 13 (b) | 14 (c) | 15 (a) | 16 (a) | 17 (b) | 18 (d) | 19 (b) | 20 (b) |
| 21 (a) | 22 (a) | 23 (c) | 24 (b) | 25 (d) | 26 (a) | 27 (b) | 28 (b) | 29 (c) | 30 (c) |
| 31 (a) | 32 (d) | 33 (a) | 34 (a) | 35 (d) | 36 (b) | 37 (b) | 38 (b) | 39 (a) | 40 (a) |
| 41 (d) | 42 (a) | 43 (a) | 44 (d) | 45 (b) | 46 (d) | 47 (a) | 48 (b) | 49 (b) | 50 (c) |
| 51 (b) | 52 (c) | 53 (b) | 54 (c) | 55 (a) | 56 (a) | 57 (d) | 58 (d) | 59 (d) | 60 (d) |
| 61 (c) | 62 (c) | 63 (d) | 64 (a) | 65 (d) | 66 (c) | 67 (c) | 68 (b) | 69 (c) | 70 (b) |
| 71 (a) | 72 (c) | 73 (a) | 74 (a) | 75 (d) | 76 (d) | 77 (c) | 78 (a) | 79 (c) | 80 (c) |
| 81 (b) | 82 (b) | 83 (d) | 84 (c) | 85 (a) | 86 (d) | 87 (a) | 88 (c) | 89 (b) | 90 (a) |
| 91 (d) | 92 (d) | 93 (c) | 94 (a) | 95 (a) | 96 (b) | 97 (a) | 98 (d) | 99 (b) | 100 (c) |

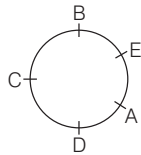


Hints & Solutions

- (a) 'Will have reached' is the correct answer.
- (b) 'Esteem' means respect and admire. 'Regard' also means the same. Hence, option (b) is the correct answer.
- (d) Part (d) contains an error. Replace it with 'should have done it' to improve the sentence.
- (a) Replace the underlined part with 'the only' to improve the sentence.
- (c) 'Hard' is the appropriate word for the given blank.
- (a) 'Theirs' should be used in place of 'there's' to make the sentence meaningful.
- (c) 'Me and my' is the appropriate word for the given blank.
- (d) 'Absurd' means unreasonable and illogical. 'Reasonable' means logical. Hence, option (d) is the correct answer.
- (b) 'Extinguish' means to stop something from burning.
- (c) Part (c) has an error. Add 'to' after 'listens' to make the sentence, error free.
- (c) The idiom 'cover up' means to hide or conceal.
- (c) 'Believe' is a correctly spelt word.
- (b) 'Corroborate' means to confirm or support something.
- (c) 'Closure' is the correctly spelt word.
- (a) The idiom 'make up with (someone)' means being closed or ignore the differences with (someone).
- (a) 'Similarity' is the antonym of 'difference'.
- (b) 'Frigid' means freezing. Hence, option (b) is the correct answer.
- (d) Replace the underlined part with 'could' to make the sentence meaningful.
- (b) Part (b) has an error. 'on her own' should be used in place of 'by her own'.
- (b) 'Celebrated' is the most appropriate word for the given blank.
- (a) 'Steps' is the correct answer.
- (a) 'While' is the correct answer.
- (c) 'Children' is the correct answer.
- (b) 'Exposure' is the correct answer.
- (d) 'Devices' is the correct answer.
- (a) Given expression, $12 * 6 * 54 * 6 * 7 = 70$
From option (a), we get

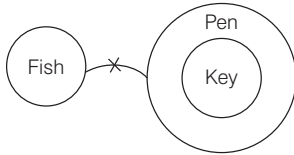
$$\begin{aligned} \Rightarrow 12 \times 6 - 54 \div 6 + 7 &= 70 \\ \Rightarrow 12 \times 6 - 9 + 7 &= 70 \\ \Rightarrow 72 - 9 + 7 &= 70 \\ \Rightarrow 72 - 2 &= 70 \\ \Rightarrow 70 &= 70 \end{aligned}$$

27. (b) According to the question, the arrangement is as follows



Hence, C is to the immediate right of B.

28. (b) According to the statements,



Conclusions I. \times II. \times III. \checkmark IV. \times

Hence, only Conclusions III follows.

29. (c) As,

$$\begin{array}{cccccccc} A & E & R & O & P & L & A & N & E \\ +2 & -2 & +2 & -2 & +2 & -2 & +2 & -2 & +2 \\ \hline C & C & T & M & R & J & C & L & G \end{array}$$

Similarly,

$$\begin{array}{cccccccc} C & H & O & P & P & E & R \\ +2 & -2 & +2 & -2 & +2 & -2 & +2 \\ \hline E & F & Q & N & R & C & T \end{array}$$

30. (c) As, unit of 'Pressure' is 'Pascal'. Similarly unit of 'Heat' is 'Joule'.

31. (a) As,

$$\begin{array}{ccccccc} G & O & O & D & L & U & C & K \\ +2 & -2 & +2 & -2 & +2 & -2 & +2 & -2 \\ \hline M & E & W & N & F & Q & Q & I \end{array}$$

Similarly,

$$\begin{array}{ccccccc} F & O & R & T & U & N & E \\ +2 & -2 & +2 & -2 & +2 & -2 & +2 \\ \hline G & P & W & V & T & Q & H \end{array}$$

32. (d) The paper will look like the figure as given in option (d).

33. (a) The pattern of the series is as follows,

$$\begin{array}{l} A \xrightarrow{+1} B \xrightarrow{+1} C \xrightarrow{+1} D \\ S \xrightarrow{+2} U \xrightarrow{+2} W \xrightarrow{+2} Y \\ D \xrightarrow{+3} G \xrightarrow{+3} J \xrightarrow{+3} M \\ F \xrightarrow{+4} J \xrightarrow{+4} N \xrightarrow{+4} R \\ \therefore ? = DYMR \end{array}$$

34. (a) As,

$$\begin{array}{ccccccc} A & B & R & U & P & T \\ +1 & -2 & +3 & -4 & +5 & -6 \\ \hline B & Z & U & Q & U & N \\ S & U & D & D & E & N \\ +1 & -2 & +3 & -4 & +5 & -6 \\ \hline T & S & G & Z & J & H \end{array}$$

Similarly,

35. (d) Given expression,

$$48 \div 12 \times 3 + 5 - 4 = 21$$

From option (d), interchanging $-$ and \times

$$\Rightarrow 48 \div 12 - 3 + 5 \times 4 = 21$$

$$\Rightarrow 4 - 3 + 20 = 21$$

$$\Rightarrow 24 - 3 = 21 \Rightarrow 21 = 21$$

36. (b) As, 'IPL' is a 'Cricket' tournament, similarly 'Wimbledon' is a 'Tennis' tournament.

37. (b) As,

$$\begin{array}{ccccccc} C & A & P & A & C & I & T & Y \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 3 & +1 & +16 & +1 & +3 & +9 & +20 & +25 = 78 \\ \Rightarrow & & & & & & & 78 + 3 = 81 \\ \text{and} & V & O & L & U & M & E \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 22 & +15 & +12 & +21 & +13 & +5 = 88 \\ \Rightarrow & & & & & & & 88 + 3 = 91 \end{array}$$

Similarly, A M O U N T

$$\begin{array}{ccccccc} A & M & O & U & N & T \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 1 & +13 & +15 & +21 & +14 & +20 = 84 \\ \Rightarrow & & & & & & & 84 + 3 = 87 \end{array}$$

38. (b) As, here each letter is coded with their reverse alphabetical position.

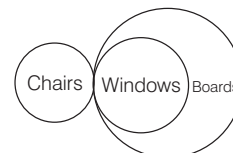
$$\begin{array}{ccccccc} D & O & N & K & E & Y \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ W & L & M & P & V & B \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 23 & +12 & +13 & +16 & +22 & +2 = 88 \end{array}$$

$$\begin{array}{ccccccc} \text{and } S & P & A & R & R & O & W \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ H & K & Z & I & I & L & D \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 8 & +11 & +26 & +9 & +9 & +12 & +4 = 79 \end{array}$$

Similarly,

$$\begin{array}{ccccccc} P & E & G & I & O & N \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ K & V & T & R & L & M \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & \downarrow \\ 11 & +22 & +20 & +18 & +12 & +13 = 96 \end{array}$$

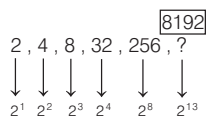
39. (a) According to the statements,



Conclusions I. \times II. \times

Hence, neither Conclusion I nor II follows.

40. (a) The pattern of the series is as follows,



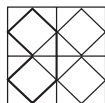
Here the series of exponents (power) is a fibonacci series,

$$1 + 2 = 3$$

$$2 + 3 = 5$$

$$5 + 8 = 13$$

41. (d) The figure given in the question is embedded in the answer figure option (d).



42. (a) Figure given in option (a) will complete the given figure series.

43. (a) Figure given in option (a) will complete the given pattern.

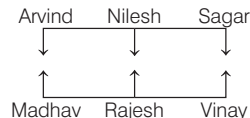
44. (d) As, (12, 30, 204)

$$\Rightarrow (12)^2 + (30 \times 2) = 144 + 60 = 204$$

Similarly, (15, 20, 265)

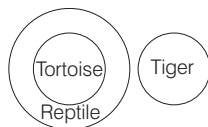
$$\Rightarrow (15)^2 + (20 \times 2) = 225 + 40 = 265$$

45. (b) According to the question, the arrangement is as follows,



Hence, Rajesh is between Vinay and Madhav.

46. (d) According to the questions



Tortoise is a reptile whereas tiger is different.

47. (a) Image given in option (a) is the correct mirror image of the given question figure.

ANTONYMS ЗМУИОТИА

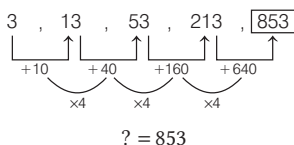
48. (b) As, (6 : 85)

$$\Rightarrow 6^2 + (6 + 1)^2 = 6^2 + 7^2 = 36 + 49 = 85$$

Similarly, (9 : 181)

$$\Rightarrow 9^2 + (9 + 1)^2 = 9^2 + 10^2 = 81 + 100 = 181$$

49. (b) The pattern of the series is as follows,



\therefore

$$? = 853$$

50. (c) The logical and meaningful order of the words is,

Egg \rightarrow Larva \rightarrow Pupa \rightarrow Adult
(2) (4) (1) (3)

51. (b) Required profit percentage = $\frac{160}{250} \times 100 = 64\%$

52. (c) Let the present age of mother be x yr.

Then, present age of father = $(x + 3)$ yr

Now 6 yr ago,

Age of father = $2 \times$ present age of daughter

$$x + 3 - 6 = 2 \times \text{present age of daughter}$$

$$x - 3 = 2 \times \text{present age of daughter}$$

$$\text{present age of daughter} = \frac{x - 3}{2} \text{ yr,}$$

According to the question,

Average of their ages 6 yr ago = 32

$$\Rightarrow \frac{(x - 6) + (x + 3 - 6) + \left(\frac{x - 3}{2} - 6\right)}{3} = 32$$

$$\Rightarrow x - 6 + x - 3 + \frac{x - 3}{2} - 6 = 96$$

$$\Rightarrow x + x + \frac{x - 3}{2} - 15 = 96$$

$$\Rightarrow \frac{4x + x - 3 - 30}{2} = 96$$

$$\Rightarrow 5x - 33 = 192$$

$$\Rightarrow 5x = 225$$

$$\therefore x = 45 \text{ yr}$$

53. (b) Let the two numbers be $4x$ and $5x$ respectively.

According to the question,

$$\frac{4x - 1}{5x + 2} = \frac{3}{4}$$

$$\Rightarrow 16x - 4 = 15x + 6$$

$$x = 10$$

$$\text{Required ratio} = \frac{4x + 8}{5x + 4} = \frac{4 \times 10 + 8}{5 \times 10 + 4} = \frac{48}{54} = \frac{8}{9} = 8 : 9$$

$$\begin{aligned} 54. (c) \quad & 120 \div \left[\frac{2}{3} \times \left(1 - \frac{2}{5} \right) \times 5 \right] + \left[\frac{9}{8} \text{ of } \frac{4}{3} + \frac{3}{4} \text{ of } \frac{2}{3} \right] \\ &= 120 \div \left[\frac{2}{3} \times \frac{3}{5} \times 5 \right] + \left[\left(\frac{9}{8} \times \frac{4}{3} \right) + \left(\frac{3}{4} \times \frac{2}{3} \right) \right] \\ &= 120 \div 2 + \left[\frac{3}{2} + \frac{1}{2} \right] = 120 \div 2 + \left[\frac{3}{2} \times 2 \right] \\ &= \frac{120}{2} + 3 = 60 + 3 = 63 \end{aligned}$$

55. (a) Range = Highest observation - Lowest observation
 $= 34 - 11 = 23$

56. (a) Sum of 10 numbers = 10 A

$$\begin{aligned} \text{New average} &= \frac{10A - 9c - (c - 1)}{10} = \frac{10A - 9c - c + 1}{10} \\ &= \frac{10A - 10c + 1}{10} = A - c + 0.1 \end{aligned}$$

57. (d) Let 'r' be the radius of hemisphere and 'a' be the side of equilateral triangle.

∴ Total surface area of hemisphere = Area of an equilateral triangle

$$\begin{aligned} 3\pi r^2 &= \frac{\sqrt{3}}{4} a^2 \\ \Rightarrow a^2 &= \sqrt{3}\pi r^2 \times 4 \\ \Rightarrow a^2 &= 4\pi\sqrt{3} \times r^2 \\ \Rightarrow a &= (4\pi\sqrt{3})^{0.5} \times r \end{aligned}$$

Hence, the side of triangle is $(4\pi\sqrt{3})^{0.5}$ times the radius of hemisphere.

58. (d) Time taken by cyclist from point A to point B (T_1) = 2 h 33 min 36 s

$$= (2 \times 3600) + (33 \times 60) + 36 = 9216 \text{ s}$$

Time taken by cyclist from point B to point A (T_2) = 1 h 26 min

$$24 \text{ s} = (1 \times 3600) + (26 \times 60) + 24 = 5184 \text{ s}$$

We know that,

$$\begin{aligned} \text{Ratio of speeds of first to that of the second cyclist} &= \sqrt{\frac{T_2}{T_1}} \\ &= \sqrt{\frac{5184}{9216}} = \sqrt{\frac{9}{16}} = 3 : 4 \end{aligned}$$

59. (d) Let the fourth proportion be x.

$$\begin{aligned} \therefore \frac{18}{27} &= \frac{68}{x} \Rightarrow x = \frac{27 \times 68}{18} \\ \Rightarrow x &= 102 \end{aligned}$$

60. (d) **Word** CONSONANT

Vowel O, O, A (3 letters)

Consonants = C, N, S, N, N, T (six letters)

$$\text{Required percentage} = \frac{6-3}{6} \times 100 = 50\%$$

61. (c) Let Y can complete the work in y days,

∴ x alone can complete the work in (y - 5) days.

According to the question,

$$\begin{aligned} \Rightarrow \frac{1}{y} + \frac{1}{y-5} &= \frac{1}{6} \\ \Rightarrow \frac{y-5+y}{y(y-5)} &= \frac{1}{6} \\ \Rightarrow \frac{2y-5}{y^2-5y} &= \frac{1}{6} \\ \Rightarrow 12y-30 &= y^2-5y \\ \Rightarrow y^2-17y+30 &= 0 \\ \Rightarrow y^2-15y-2y+30 &= 0 \\ \Rightarrow y(y-15)-2(y-15) &= 0 \\ \Rightarrow (y-15)(y-2) &= 0 \\ y &= 15 \\ y &= 2 \text{ (not possible)} \end{aligned}$$

Hence, y can alone complete that work in 15 days.

62. (c) Number of persons applying in month M_3 and M_4

$$= (162 + 94) \times 100 = 25600$$

Number of persons applying in month $M_5 = 7200$

$$\therefore \text{Required percentage} = \frac{7200}{25600} \times 100 = 28.13\%$$

63. (d) Central angle of the sector corresponding to M_1

$$= \frac{248}{(248 + 134 + 162 + 94 + 72)} \times 360^\circ = \frac{248}{710} \times 360^\circ \approx 126^\circ$$

64. (a) Number of people applying for passport in month, M_2

$$= 134 - \frac{1}{2} \times 134 = 67$$

and month $M_5 = 72 + \frac{1}{2} \times 72 = 108$

The central angle of M_5

$$= \frac{108}{(248 + 67 + 162 + 94 + 108)} \times 360^\circ = \frac{108}{679} \times 360^\circ \approx 57^\circ$$

65. (d) Speed of light = 3×10^{17} nm/s = $3 \times 10^{17} \times 10^{-9}$ m/s

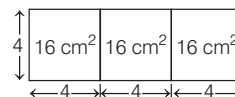
$$= 3 \times 10^8 \text{ m/s}$$

Distance between Moon and Earth = 384000 km

$$= 384000 \times 1000 \text{ m}$$

$$\text{Required time} = \frac{\text{Distance}}{\text{Speed}} = \frac{384000 \times 1000}{3 \times 10^8} = 1.28 \text{ s}$$

66. (c)



Let the edge of each square be a cm.

Then, $a^2 = 16$, $a = 4$ cm

Length of rectangle (l) = $3 \times a = 3 \times 4 = 12$ cm

Width of rectangle (b) = $a = 4$ cm

Perimeter of rectangle = $2(l + b) = 2(12 + 4) = 32$ cm

67. (c) Let time taken by all the pipes to fill the cistern completely be x h

$$\text{According to the question, } \frac{x}{8} + \frac{2}{10} - \frac{x-2}{20} = 1$$

$$\Rightarrow \frac{5x + 8 - 2x + 4}{40} = 1$$

$$\Rightarrow 3x = 40 - 12$$

$$\Rightarrow 3x = 28 \Rightarrow x = \frac{28}{3}$$

$$\therefore \text{Required time} = x - 2 = \frac{28}{3} - 2 = \frac{28-6}{3} = \frac{22}{3} = 7 \text{ h } 20 \text{ min}$$

$$\begin{aligned} 68. (b) & \frac{45 \div 3 \times \frac{2}{3} + 1 \frac{1}{3} \text{ of } 6 \frac{3}{8} - 4 \frac{1}{8}}{\frac{1}{2} \left[\left(2 \frac{1}{4} + 1 \frac{1}{2} \right) \div \left(\frac{1}{15} + \frac{1}{3} - \frac{9}{10} \right) \right]} \\ &= \frac{15 \times \frac{2}{3} + \frac{4}{3} \times \frac{51}{8} - \frac{33}{8}}{\frac{1}{2} \left[\left(\frac{9}{4} + \frac{3}{2} \right) \div \left(\frac{2+10-27}{30} \right) \right]} \\ &= \frac{10 + \frac{17}{2} - \frac{33}{8}}{\frac{1}{2} \left[\left(\frac{9}{4} + \frac{3}{2} \right) \div -\frac{15}{30} \right]} \end{aligned}$$

$$\begin{aligned}
 &= \frac{\left(\frac{80+68-33}{8}\right)}{\frac{1}{2}\left[\left(\frac{9}{4}+\frac{3}{2}\right)\times-2\right]} = \frac{\left(\frac{115}{8}\right)}{\frac{1}{2}\left[\frac{15}{4}\times-2\right]} \\
 &= \frac{\left(\frac{115}{8}\right)}{\left(-\frac{15}{4}\right)} = -\frac{115}{8}\times\frac{4}{15} = -\frac{23}{6}
 \end{aligned}$$

69. (c) Let the rate of interest be $r\%$ per annum.

$$\begin{aligned}
 \therefore \quad CI &= P \left[\left(1 + \frac{r}{100}\right)^n - 1 \right] \\
 \Rightarrow \quad 370 &= 3240 \left[\left(1 + \frac{r}{100}\right)^2 - 1 \right] \\
 \Rightarrow \quad \frac{370}{3240} &= \left(1 + \frac{r}{100}\right)^2 - 1 \Rightarrow \frac{37}{324} + 1 = \left(1 + \frac{r}{100}\right)^2 \\
 \Rightarrow \quad \frac{361}{324} &= \left(1 + \frac{r}{100}\right)^2 \Rightarrow \frac{r}{100} = \frac{1}{18} \\
 \therefore \quad r &= \frac{100}{18} = 5.56\%
 \end{aligned}$$

70. (b) Let the two numbers be $19x$ and $19y$ respectively,

$$\text{Then, } 19x + 19y = 152 \Rightarrow x + y = 8$$

Possible value of (x, y) are $(1, 7)$ $(2, 6)$ $(3, 5)$ but the numbers are 2-digits, then $x = 3, y = 5$

$$\therefore \text{Numbers are, } 19 \times 3 = 57 \text{ and } 19 \times 5 = 95$$

$$\text{Hence, Required difference} = 95 - 57 = 38$$

71. (a) Let $r\%$ be the rate of interest per annum be ₹ P be the principal.

Interest for 2 yr = 292

$$\frac{P \times r \times 2}{100} = 292$$

$$P \times r = 14600 \Rightarrow P = \frac{14600}{r}$$

Amount for first 5 yr = ₹ $(3942 - 292) = ₹ 3650$

$$3650 - P = \frac{P \times r \times 5}{100}$$

$$\Rightarrow \quad 3650 - P = \frac{\frac{14600}{r} \times r \times 5}{100}$$

$$\Rightarrow \quad 3650 - P = 730 \Rightarrow P = 3650 - 730$$

$$\Rightarrow \quad P = ₹ 2920$$

$$\therefore \quad r = \frac{14600}{p} = \frac{14600}{2920} = 5\%$$

Hence, rate of interest is 5 percentage per annum.

72. (c) Total discount percent age = $20 + 10 - \frac{20 \times 10}{100} = 30 - 2 = 28\%$

$$\text{Amount of discount} = \frac{28}{100} \times 720 = ₹ 201.6$$

73. (a) Let the total units of items = x

and CP of all the items = ₹ y

$$\text{Then, CP of 1 item} = ₹ \frac{y}{x}$$

Now, Let the required fractions be $\frac{1}{p}$

$$\text{SP of } \frac{1}{p} x \text{ items} = ₹ y$$

$$\text{SP of 1 such item} = ₹ \frac{y}{\left(\frac{x}{p}\right)}$$

$$\text{Profit percentage} = \frac{\text{Profit}}{\text{CP}} \times 100$$

$$300 = \frac{\frac{y}{\left(\frac{x}{p}\right)} - \frac{y}{x}}{\frac{y}{x}} \times 100$$

$$\Rightarrow \quad 3 = (p - 1) \Rightarrow p = 4$$

Hence, the required fraction is $\frac{1}{p} = \frac{1}{4}$

74. (a) Let the number of runs scored in sixes, fours, threes, twos and singles are $x, 3x, 2x, 7x$ and $10x$ respectively.

According to the question,

$$\Rightarrow 6x + 4 \times (3x) + 3 \times (2x) + 2 \times (7x) + 10x = 96$$

$$\Rightarrow \quad 6x + 12x + 6x + 14x + 10x = 96$$

$$\Rightarrow \quad 48x = 96$$

$$\Rightarrow \quad x = \frac{96}{48} = 2$$

$$\therefore \text{Runs scored in singles} = 10x = 10 \times 2 = 20$$

75. (d) Radius (r) = 2 cm,

$$\text{Area} \quad (A) = \frac{4\pi}{5}$$

Let the central angel be θ

$$\text{Then, } \frac{\theta}{360^\circ} \times \pi r^2 = A$$

$$\frac{\theta}{360^\circ} \times \pi \times 2^2 = \frac{4\pi}{5}$$

$$\theta = \frac{360^\circ}{5}$$

$$\theta = 72^\circ$$

76. (d) 'Navanna' is a Bengali harvest celebration usually celebrated with food and dance and music in Bangladesh and in the Indian states of West Bengal, Tripura and Assam's Barak Valley.

77. (c) Bahadur Shah II was arrested by the British Army after it captured Delhi in September, 1857. After the rebellion was put down by the British, he was tried and exiled to Burma (Myanmar) with his family.

78. (a) The strength of Maharashtra is 48 in Lok Sabha as of September, 2020. The Lok Sabha is also known as 'House of people' is the Lower House of Indian Parliament. The maximum member of Lok Sabha (Lower House) allotted by Constitution of India is 552. Presently, 17th Lok Sabha is working which is elected in May, 2019.

79. (c) The Chutka Nuclear Power Plant is a proposed nuclear power plant to be built on a 1,200 acres area, near Chutka Village of Mandla district of Madhya Pradesh. The site is near Kanha National Park, one of the tiger reserves of India and the largest national park of Madhya Pradesh state in India.
80. (c) **Wonder Woman** Dr Seema Rao, India's first and only woman Commando trainer. Dr Seema Rao has spent 25 years of her life in training the 20000 soldiers from the Indian Armed Forces, Paramilitary and Police without any compensation.
81. (b) Former Indian opener Wasim Jaffer has been appointed head coach of the Uttarakhand cricket team. The most elevated run-getter in Ranji Trophy, Jaffer had reported retirement in March this year. This will be his first spell as a lead trainer with a Team.
82. (b) The Reserve Bank of India was nationalised with effect from 1st January, 1949 on the basis of the Reserve Bank of India (Transfer to Public Ownership) Act, 1948. All shares in the capital of the Bank were deemed transferred to the Central Government on payment of a suitable compensation.
83. (d) Kafull is a delicacy of Uttarakhand prepared out of leafy greens such as palak (spinach) and methi (fenugreek) leaves. It is also known as Dhapdi in Garhwal.
84. (c) According to Section 4 of Punjab Reorganisation Act 1966, there shall be formed a new Union Territory to be known as the Union Territory of Chandigarh comprising such of the territories of Manimajra and Manauli Kanungo circles of Kharar tahsil of Ambala district in the existing State of Punjab as are specified in the Second Schedule.
85. (a) Krishnamurthy Venkata Subramanian is an Indian economist and ex Chief Economic Adviser to the Government of India, officially being appointed to the position on 7th December, 2018.
86. (d) The Great Basin Bristlecone Pine (*Pinus Longaeva*) has been deemed the oldest tree in existence, reaching an age of over 5,000 years old. The Bristlecone pines' success in living a long life can be attributed to the harsh conditions it lives in.
87. (a) Gangkhar Puensum or Gankar Punzum is the highest mountain in Bhutan and the highest unclimbed mountain in the world, with an elevation of 7,570 metres (24,836 ft) and a prominence of 2,995 metres (9,826 ft). Its name means 'White Peak of the Three Spiritual Brothers'.
88. (c) Lake Pichola, situated in Udaipur city in the Indian state of Rajasthan, is an artificial fresh water lake, created in the year 1362 AD, named after the nearby Picholi village. It is one of the several contiguous lakes, and developed over the last few centuries in and around the famous Udaipur city.
89. (b) Article 149 denotes Duties and powers of India the Comptroller and Auditor General (CAG) of India The Comptroller and Auditor General shall perform such duties and exercise such powers in relation to the accounts of the Union and of the States and of any other authority or body as may be prescribed by or under any law made by Parliament and, until provision in that behalf is so made, shall perform such duties and exercise such powers in relation to the accounts of the Union and of the States as were conferred on or exercisable by the Auditor General of India immediately before the commencement of this Constitution in relation to the accounts of the Dominion of India and of the Provinces respectively.
90. (a) Ringworm is a common infection of the skin and nails that is caused by fungus. The infection is called "ringworm" because it can cause an itchy, red, circular rash. Ringworm is also called "tinea" or "dematophytosis".
91. (d) An antigen is any substance that causes our immune system to produce antibodies against it. This means our immune system does not recognise the substance, and is trying to fight it off. An antigen may be a substance from the environment, such as chemicals, bacteria, viruses, or pollen.
92. (d) Excessive thoughts (obsessions) that lead to repetitive behaviours (compulsions). Obsessive-compulsive disorder is characterised by unreasonable thoughts and fears (obsessions) that lead to compulsive behaviours. OCD often centres on themes such as a fear of germs or the need to arrange objects in a specific manner. Symptoms usually begin gradually and vary throughout life. Treatment includes talk therapy, medication or both.
93. (c) The book, titled 'Vishesh: Code To Win', has been written by sportswoman- turned-author Nirupama Yadav and published by the publishing house Bluerose. The book is set to be released on 29th August, the National Sports Day.
94. (a) Spain's World Cup-winning captain and goalkeeper Iker Casillas announced retirement from the professional football on 4th August, 2020.
95. (a) While Dr. Joshi was given the award for his efforts as a changemaker in environmental sustainability sector by impacting over 10,000 villages in the Himalayan region through his Himalayan Environmental Studies & Conservation Organisation, Vidyut was acknowledged for his seminal and ingenious efforts in combating air.
96. (b) Dr. GR Chintala is the Chairman of National Bank for Agriculture and Rural Development (NABARD) with effect from 27th May, 2020.
97. (a) The Indian Universities Commission was a body appointed in 1902 on the instructions of Lord Curzon which was intended to make recommendations for reforms in University education in India.
98. (d) Global Tiger Day, often called International Tiger Day, is an annual celebration to raise awareness for tiger conservation, held annually on 29th July. It was created in 2010 at the Saint Petersburg Tiger Summit in Russia.
99. (b) The National Archives of India is the custodian of the records of enduring value of the Government of India. Established on 11th March, 1891 at Calcutta (Kolkata) as the Imperial Record Department, it is the biggest archival repository in South Asia.
100. (c) Povadas are the folk dance of Maharashtra. It is presented in the Marathi ballads form. This dance form describes the events in the life of the great Maratha ruler, Shri Chhatrapati Shivaji Maharaj. Shivaji was the founder of the Maratha Empire, and did a lifelong struggle against the Mughals.

SSC Multi-Tasking Exam

Solved Paper

02 November, 2021
II Shift

Instructions

- ✓ This paper contains 100 questions.
- ✓ This paper has 4 parts, Part I General English, Part II General Intelligence & Reasoning, Part III Numerical Ability, Part IV General Awareness
- ✓ Each question carries 1 mark.



General English

- Select the word which means the same as the group of words given.
One who is mentally not sound.
(a) Brainy (b) Lunatic
(c) Miserly (d) Mindful
- Select the most appropriate antonym of the given word.
Ignorant
(a) Learned (b) Simple
(c) Crude (d) Innocent
- Identify the segment in the sentence which contains a grammatical error.
The ship was facing very stronger currents in the ocean.
(a) very stronger currents
(b) was facing
(c) The ship
(d) in the ocean
- Select the word which means the same as the group of words given.
One who can use both hands equally well.
(a) Multitalented (b) Multifaceted
(c) Ambidextrous (d) Ambivalent
- Identify the segment in the sentence which contains a grammatical error.
The man was enjoyed the view from his terrace.
(a) the view (b) from is terrace
(c) was enjoyed (d) The man
- Select the most appropriate synonym of the given word.
Angry
(a) Wild (b) Enraged
(c) Dull (d) Calm
- Select the most appropriate Synonym of the given word.
Wane
(a) Increase (b) Rise
(c) Decline (d) Drown
- Select the most appropriate antonym of the given word.
Partner
(a) Associate (b) Opponent
(c) Participant (d) Friend
- Select the incorrectly spelt word.
(a) Resourceful
(b) Illiterate
(c) Confidential
(d) Maintainance
- Select the most appropriate meaning of the given idiom.
A bolt from the blue
(a) Sudden event that is welcome
(b) Loud thunder and lightning
(c) Unexpected and surprising event
(d) Sky getting filled with blue light
- Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
The ostrich is a peculiar bird, sometimes it prefer to run around in circles.
(a) No substitution required
(b) sometimes it prefers to
(c) sometimes it prefer to
(d) sometimes its prefer to
- Identify the segment in the sentence which contains a grammatical error.
The poster was make by the hard-working students of class nine.
(a) by the hard-working
(b) was make
(c) students of class nine
(d) The poster
- Select the most appropriate word to fill in the blank.
I am sure there is some truth in the news. There is no smoke fire.
(a) with (b) within
(c) where (d) without
- Select the incorrectly spelt word.
(a) Confusion (b) Heavily
(c) Grammar (d) Allmighty

15. Select the most appropriate word to fill in the blank.

There was once a very king, Julius Caesar, who wanted to rule the whole world.

- (a) contented
(b) faithful
(c) ambitious
(d) adventurous

16. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

During his research, the forest officer was pleasantly surprised to find that the population of tigers had increased.

- (a) is to increase
(b) have increased
(c) No substitution required
(d) has increase

17. Select the most appropriate word to fill in the blank.

Keeping distance from others is one of the one must take to remain safe from the coronavirus.

- (a) habits (b) points
(c) issues (d) precautions

18. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.

They are making a lot of noise, isn't it?

- (a) haven't they
(b) are they
(c) aren't they
(d) No substitution required

19. Select the most appropriate meaning of the given idiom.

Herculean task

- (a) Very easy task
(b) Very tough task
(c) Very old task
(d) Very pleasant task

20. Select the most appropriate word to fill in the blank.

There is a lot to learn from nature.

- (a) about (b) hardly
(c) quite (d) almost

Directions (Q. Nos. 21-25) In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

Nawab Mir Osman Ali Khan was the last ruler of Hyderabad, the largest princely state in British India. He ascended the throne (1)..... the age of 25 and ruled Hyderabad for 37 years. He (2)..... on the cover of Time magazine as the (3)..... person at the time. He was the 5th richest man in (4) history of mankind and the richest Indian who ever lived. He was a (5)..... ruler who encouraged education, science and development.

21. Select the most appropriate option to fill in blank no. 1.

- (a) with (b) of (c) at (d) to

22. Select the most appropriate option to fill in blank no. 2.

- (a) had feature (b) is feature
(c) was featured (d) have featured

23. Select the most appropriate option to fill in blank no. 3.

- (a) richer (b) rich
(c) most rich (d) richest

24. Select the most appropriate option to fill in blank no. 4.

- (a) the (b) a (c) one (d) an

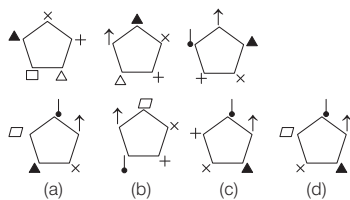
25. Select the most appropriate option to fill in blank no. 5.

- (a) jealous (b) cruel
(c) benevolent (d) wicked



General Intelligence & Reasoning

26. Select the option that will come next in the following figure series.



27. In a certain language, if the signs + and ×, and the digits 3 and 8 are interchanged, then what is the value of the following expression?

$$6 \times 35 \div 5 + 8 - 9$$

- (a) 101 (b) 48 (c) 44 (d) 31

28. In a certain language, if '+' means 'subtraction', '×' means 'division', '÷' means 'addition' and '-' means 'multiplication', then find the value of the following expression (BODMAS rule does not apply in that language).

$$8 \div 16 \times 4 + 2 - 3$$

- (a) 1 (b) 12 (c) 9 (d) 5

29. Select the number that will replace the question marks (?) in the given number series.

11, 12, 13, 13, 17, 16, 23, ?, ?

- (a) 21, 31 (b) 25, 33 (c) 23, 27 (d) 23, 29

30. In the question below, three statements are given, followed by four conclusions, numbered 1, 2, 3 and 4. Assuming the statements to be true, choose the appropriate option regarding the conclusions.

Statements

- I. All doctors are lawyers.
II. Some lawyers are engineers.
III. All engineers are brokers.

Conclusions

1. Some engineers are doctors.
2. Some brokers are lawyers.
3. Some brokers are doctors.
4. Some lawyers are doctors.

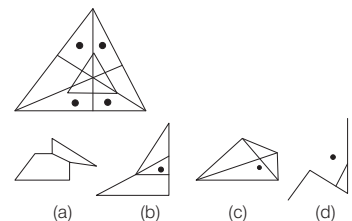
- (a) None of the Conclusions follow
(b) Only Conclusions 2 and 4 follow
(c) All the conclusions follow
(d) Only Conclusions 1 and 3 follow

31. Select the combination of letters that, when sequentially placed in the blanks of the given series will complete the series.

_ c _ d _ c a _ c b d d b _ a

- (a) abcac (b) caddb
(c) abbac (d) cdaba

32. Select the figure from the options, which is embedded in the given question figure.



Directions (Q. Nos. 33 and 35) Read the following information carefully and answer the given question.

In a year-end examination, 6 papers—Maths, Physics, Geography, Economics, Chemistry

and History are scheduled on 6 consecutive days of a week (Monday-Saturday).

1. Maths paper is after the Chemistry paper, with a 1-day gap between them.
2. Physics paper is on Monday.
3. Geography paper is not on the last day.
4. History paper, which is scheduled on the previous day of the Maths paper, has a two-day gap with the Physics paper.

33. Which paper is scheduled on Saturday?

- (a) Chemistry (b) Economics
(c) History (d) Maths

34. In the above description, the History paper was cancelled due to in completion of syllabus and the exam was scheduled for five days (Monday-Friday), with the order of the papers reversed.

Which paper was scheduled on Thursday?

- (a) Physics (b) Geography
(c) Maths (d) Chemistry

35. Select the number that will replace the question mark (?) in the given number series.

146, 90, 56, 34, 22, ?

- (a) 12 (b) 10 (c) 14 (d) 16

36. In the question below, two statements are given, followed by two conclusions numbered 1, 2. Assuming the statements to be true, choose the appropriate option regarding the conclusions.

Statements

- I. Amit is a good fielder.
II. All fielders have big hands.

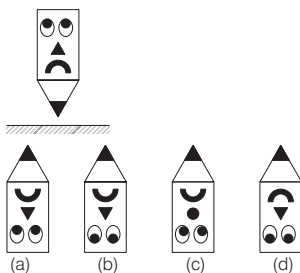
Conclusions

1. All people with big hands are fielders.

2. Amit has big hands.

- (a) Both the Conclusions follow
(b) Only Conclusion 1 follows
(c) Neither conclusion follows
(d) Only Conclusion 2 follows

37. Select the mirror image of the following figure (not the position of the mirror).



38. Select the number triad that is analogous to the given triads.

(64, 8, 65), (125, 27, 89)

- (a) (100, 23, 90) (b) (216, 1, 81)
(c) (49, 36, 25) (d) (83, 24, 95)

39. In a certain code language, if 'raghav plays hockey' is written as 'xfjdni rzzmo ubghzs', then 'arun works hard' will be written as :

- (a) eqxi rlqpv mxwa
(b) eqxi rjsnx mvqb
(c) cszi rlqpv mvqb
(d) cszi rjsnx mvwb

40. Select the number pair that is analogous to the given pair.

46 : 61

- (a) 60 : 28 (b) 521 : 52
(c) 27 : 3 (d) 612 : 36

41. Select the name from the options that is similar to the given set of names in a certain manner.

- Bismillah Khan, JRD Tata, M Visvesvaraya, Sachin Tendulkar
(a) Mahatma Gandhi
(b) Baba Amte
(c) Pranab Mukherjee
(d) Viswanathan Anand

42. Select the letter that will replace the question mark (?) in the given letter series.

a, d, h, n, ?

- (a) w (b) y (c) a (d) v

43. In a certain code language, if storm = 15, apple = 6, virtue = 35, then cupboard = ?

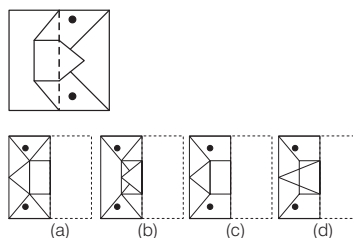
- (a) 23 (b) 37 (c) 45 (d) 31

44. In a certain code language, NEST is written as 8426, WISE is written as 6912 and RAIN is written as 7859.

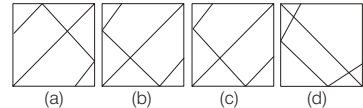
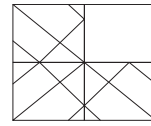
The letters do not correspond to digits. Which of the following can be the code for the word WANT?

- (a) 6759 (b) 2194 (c) 7894 (d) 8147

45. Select the option that depicts how the given transparent sheet of paper would appear if it is folded at the dotted line.



46. Select the figure from the options that, when placed in the blank space of the given figure will complete the pattern.

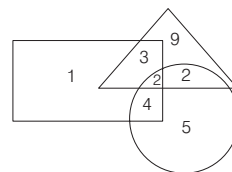


47. Five people make statements about their heights. Only one of them is lying. Study the statements carefully and identify the second tallest person in the group.

1. **Aditya** I am taller than Nachiket, but shorter than Sanika.
2. **Rushikesh** I am taller than Aditya, but shorter than Sanika.
3. **Nachiket** I am of the same height and that of Rushikesh and taller than Nikita.
4. **Sanika** I am the tallest.
5. **Nikita** Rushikesh is shorter than Aditya.

- (a) Nachiket (b) Nikita
(c) Rushikesh (d) Aditya

48. In the following figure, the triangle represents 'carpenters', the circle represents 'black-smiths' and the rectangle represents 'fishermen'. How many people are fishermen?



- (a) 13 (b) 1 (c) 9 (d) 10

49. Four letter-clusters have been given, out of which three are alike in some manner and one is different. Select the odd letter-cluster.

- (a) gtri (b) kpnm (c) dwfv (d) cxve

50. Select the option that is related to the third term in the same way as the second term is related to the first term.

Conductor : Aluminium :: insulator : ?

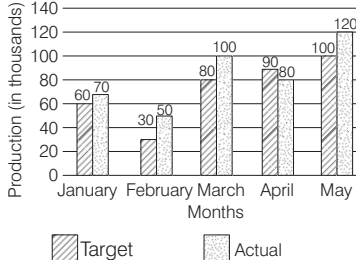
- (a) Silver (b) Mica
(c) Silicon (d) Graphite



Numerical Ability

51. Study the given graph and answer the question that follows.

Target and Actual production of AC's (in thousands) of a factory over five months.



The ratio of the actual production of AC's in February and April to that of the target production of AC's in January and April is

- (a) 15 : 13 (b) 13 : 15
(c) 7 : 9 (d) 9 : 7
52. Twenty persons take 15 days to complete a certain work, working 8 h a day. To complete the same work in 4 days, working 10 h a day, the number of persons required is
- (a) 75 (b) 60
(c) 80 (d) 55
53. After allowing a discount of 10% on the marked price of an article, it is sold for ₹ 450. Had the discount not been given, the profit would have been 25%. What is the 50% of the cost price (in ₹) of the article?
- (a) 150 (b) 200
(c) 175 (d) 250
54. The ratio of the incomes of A and B is 1 : 2 and that of their expenditure is 2 : 3. If 80% of B's expenditure is equal to the income of A, then what is the ratio of the savings of B to the savings of A?
- (a) 2 : 9 (b) 9 : 2
(c) 7 : 3 (d) 3 : 7
55. A farmer borrowed ₹ 132000 from a money lender to do cultivation in his field. The rate of interest is 12.5% per annum compounded annually. At the end of two years, he cleared his loan by paying ₹ 107062.50 and his scooter. The cost (in ₹) of the scooter is
- (a) 75000 (b) 45000
(c) 60000 (d) 50000

56. The value of $\left(4\frac{1}{5} - 3\frac{1}{10} \text{ of } 1\frac{1}{7}\right) + \left(6\frac{1}{3} - 3\frac{1}{5} \text{ of } 1\frac{1}{2}\right)$ is
- (a) $\frac{3}{5}$ (b) $\frac{5}{9}$ (c) $\frac{5}{7}$ (d) $\frac{3}{7}$

57. In a week, the prices of a bag of tea were ₹ 350, ₹ 280, ₹ 340, ₹ 270, ₹ 360, ₹ 310 and ₹ 300. The range (in ₹) is
- (a) 100 (b) 80 (c) 70 (d) 90

58. The cost price of an article is $\frac{7}{6}$ times the selling price. What is the loss/gain percentage (correct up to two decimal places)?
- (a) Loss 14.29% (b) Gain 16.67%
(c) Loss 16.67% (d) Gain 19.54%

59. The area of a trapezium whose parallel sides are 25 cm and 19 cm long is 330 cm². The distance between the sides (in cm) is
- (a) 10 (b) 12 (c) 30 (d) 15

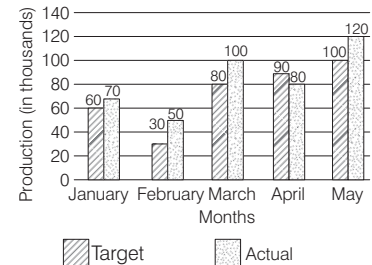
60. 6 copies of a book can be bought for a certain sum payable at the end of a year, and 7 copies of the same book can be bought for the same sum in cash money. What is the rate per annum of simple interest (correct to one decimal place)?
- (a) 10.9% (b) 15.5%
(c) 16.7% (d) 30.4%

61. A alone can do a piece of work in 10 days and B alone in 15 days. A and B undertook to do it for ₹ 42000, with the help of C, they completed the work in 5 days. How much (in ₹) is to be paid to B?
- (a) 14000 (b) 15000
(c) 21000 (d) 7000

62. An aeroplane covers a certain distance at a speed of 280 km/h in $4\frac{3}{4}$ h. To cover the same distance in 7 h, it must travel at a speed (in km/h) of
- (a) 140 (b) 190
(c) 175 (d) 180

Directions (Q. Nos. 63-64) Study the given graph and answer the questions that follow.

Target and actual production of AC's (in thousands) of a factory over five months.



63. The actual production of AC's in May is what percentage more than the average target production of AC's over the period of 5 months (correct to the nearest integer)?
- (a) 67 (b) 50 (c) 69 (d) 51
64. In which month is the actual production of AC's is 66% more than the target production?
- (a) April (b) February
(c) March (d) May
65. If the radius of the base of a right circular cylinder is 4 m and the area of the curved surface of the cylinder is 19.5 m², then its volume (in m³) is
- (a) 65 (b) 42 (c) 36 (d) 39
66. Simplify $\left[\frac{3}{5} \text{ of } \left(15\frac{2}{3} - 33\frac{1}{3} \right) + \frac{1}{3} \left(18\frac{3}{4} \text{ of } 7\frac{1}{5} + 15 \times 2 \right) \right] \times 5$
- (a) $-\frac{23}{54}$ (b) $-\frac{1}{2}$
(c) 83 (d) $-\frac{23}{5}$
67. There are 100 students in a class, out of which 70% are girls and others are boys. The average score of girls in a test is 20% more than that of boys. If the average score of all the students is 57, then what is the average score of girls?
- (a) 60 (b) 50 (c) 45 (d) 75
68. Two trains of the same length are running on parallel tracks in the same direction at 44 km/h and 32 km/h. The faster train passed the other train in 72 s. What is the sum of the lengths (in m) of both trains?
- (a) 240 (b) 200 (c) 190 (d) 250

69. Two circles of radii 14 cm and 10 cm intersect each other and the length of their common chord is 16 cm. What is the distance (in cm) between their centres?
 (a) $6 + 4\sqrt{33}$ (b) $6 + 2\sqrt{33}$
 (c) $6 + 5\sqrt{33}$ (d) $6 + 3\sqrt{33}$

70. The average monthly expenditure of a family was ₹ 10000 during the first three months, ₹ 12500 during the next four months and ₹ 13500 during the last five months of a year. If the total savings during the year was ₹ 32,500, then 70% of the average monthly income of the family (in ₹) was
 (a) 11250 (b) 12250
 (c) 15000 (d) 10500

71. In an examination, the ratio of the number of candidates who passed, to those who failed was 5 : 2. If the number of failed candidates had been 14 more, then the ratio of the number of passed candidates to those who failed would have been 4 : 3. How many candidates passed the examination?

(a) 126 (b) 70
 (c) 100 (d) 98

72. Which is largest number that will divide 1992 and 233 leaving remainders 12 and 13, respectively?
 (a) 242 (b) 220 (c) 246 (d) 186

73. If $x : y : z = 1 : 2 : 3$, then what is the value of $\left(\frac{3x^2 - 2y^2 + 4z^2}{x^2 + 2y^2 + z^2} \right)$?

(a) $\frac{31}{21}$ (b) $\frac{31}{16}$
 (c) $\frac{31}{18}$ (d) $\frac{31}{19}$

74. A sells an article to B at 12% profit. B sells it to C at 9% loss. If C pays ₹ 15288 for it, then at what price (in ₹) is the article sold by A?
 (a) 15000 (b) 16800
 (c) 16000 (d) 14250

75. When the price of sugar gets raised by 50%, a person increases his expenditure on sugar only by 25%. By what percentage (correct up to two decimal places) should he reduce his consumption of sugar?
 (a) 12.75% (b) 15.75%
 (c) 16.67% (d) 11.54%



General Awareness

76. Lothal, a prominent city of the ancient Indus Valley Civilisation, is situated in which of the following states?
 (a) Gujarat
 (b) Himachal Pradesh
 (c) Rajasthan
 (d) Punjab

77. Which economist took the subject of economics away from approaches that focus exclusively on income, growth and utility, with an increased emphasis on individual entitlements, capabilities, freedoms and rights?
 (a) Robert Lucas (b) Amartya Sen
 (c) Milton Friedman (d) Adam Smith

78. Jagdish Sheth, one of the recipients of Padma Bhushan 2020, has received the award in the domain of
 (a) Trade and Industry
 (b) Art
 (c) Literature and Education
 (d) Public Affairs

79. Which of the following Acts ended the monopoly of the East India Company over trade with India?
 (a) Regulating Act of 1793
 (b) Charter Act of 1813
 (c) Charter Act of 1833
 (d) Regulating Act of 1773

80. Which pair of cities does the Yamuna Expressway connect?
 (a) Agra—Panipat
 (b) Greater Noida—Agra

(c) Delhi—Jaipur
 (d) Lucknow—Allahabad

81. Who among the following was nominated to the Rajya Sabha by President Ram Nath Kovind in March 2020?

(a) TS Thakur
 (b) Jagdish Singh Khehar
 (c) Dipak Misra
 (d) Ranjan Gogoi

82. 'Mission Antyodaya' is a mission mode project envisaged by the

(a) Ministry of Urban Development
 (b) Ministry of Rural Development
 (c) Ministry of Health Development
 (d) Ministry of Transport Development

83. Which of the following mountain ranges is home to the second highest peak of the world, K2?

(a) Karakoram Range
 (b) Ladakh Range
 (c) Pir Panjal Range
 (d) Zaskar Range

84. Who among the following wrote the 'Brahmo Covenant', which was a statement of the creed of the Brahmo Samaj and made a list of the duties and obligations of its members?

(a) Keshab Chandra Sen
 (b) Ishwar Chandra Vidyasagar
 (c) Debendranath Tagore
 (d) Rammohan Roy

85. Which Constitutional Amendment gave constitutional status to the Panchayati Raj Institutions?

(a) 86th Amendment Act, 2002
 (b) 71st Amendment Act, 1992
 (c) 73rd Amendment Act, 1992
 (d) 92nd Amendment Act, 2003

86. Which of the following nations retained its ICC T20 Women's World Cup Crown in March 2020?

(a) England (b) New Zealand
 (c) India (d) Australia

87. Which of the following dance forms is popular in Himachal Pradesh?

(a) Laho (b) Nathi (c) Ronf (d) Thora

88. The Sunderban Delta is created by the rivers.

(a) Sindhu-Brahmaputra
 (b) Ganga-Sindhu
 (c) Godavari-Krishna
 (d) Ganga-Brahmaputra

89. In which year was the Home Rule Movement started?

(a) 1914 (b) 1915 (c) 1917 (d) 1916

90. 'Myopia' is also known as

(a) near-sightedness
 (b) astigmatism
 (c) presbyopia
 (d) far-sightedness

91. Who among the following won the Hockey India Dhruv Batra Award for Player of the Year (Men) at the Third Annual Hockey India Awards in March 2020?

- (a) PR Sreejesh
(b) Rupinder Pal Singh
(c) Harmanpreet Singh
(d) Manpreet Singh
92. Who among the following is the author of the book 'The Anarchy : The Relentless Rise of the East India Company'?
- (a) Shoshanan Zuboff
(b) Sumit Sarkar
(c) Shashi Tharoor
(d) William Dalrymple
93. Which of the following statements best explains the process of sublimation?
- (a) The process of water movement through a plant and its evaporation from aerial parts.
(b) The process by which water vapour in the air is changed into liquid water.
(c) The process by which water changes from a liquid to a gas or vapour.
(d) The transition of a substance directly from the solid to the gas phase without passing through the intermediate liquid phase.
94. In June 2020, the President of India promulgated the Banking Regulation (Amendment) Ordinance, 2020. Which of the following is the main feature of this ordinance?
- (a) It brings urban and multi-state cooperative banks under the supervision of the Reserve Bank of India.
(b) It gives greater regulating powers to the Reserve Bank of India by the way of appointing more Directors to the Board of scheduled banks.
(c) It relaxes Tier-1 capital related norms for banks.
(d) It allows foreign lending institutions to set up their branches in India.
95. In which state is the Madai Festival celebrated?
- (a) Odisha
(b) Jharkhand
(c) Jammu and Kashmir
(d) Chhattisgarh
96. Which of the following causative agents causes the disease Ebola?
- (a) Bacteria
(b) Fungus
(c) Virus
(d) Protozoan
97. As per the Constitution of India, every person who is arrested and detained in custody shall be produced before the nearest magistrate within a period of hours of such arrest excluding the time necessary for the Journey from the place of arrest to the court of the magistrate .
- (a) six
(b) thirty-six
(c) twenty-four
(d) twelve
98. What is the maximum amount of bank loan permissible under the Kishor scheme of the Pradhan Mantri Mudra Yojana?
- (a) ₹ 20 lakh
(b) ₹ 10 lakh
(c) ₹ 15 lakh
(d) ₹ 5 lakh
99. The force of the Earth's gravity on every kilogram is about
- (a) 20 N
(b) 10 N
(c) 5 N
(d) 15 N
100. In the upper reaches of the atmosphere, a molecule containing three atoms of oxygen is found. This forms a layer called
- (a) mesosphere
(b) exosphere
(c) thermosphere
(d) ozone

Answer Sheet

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1 (b) | 2 (a) | 3 (a) | 4 (c) | 5 (c) | 6 (b) | 7 (c) | 8 (b) | 9 (d) | 10 (c) |
| 11 (b) | 12 (b) | 13 (d) | 14 (d) | 15 (c) | 16 (c) | 17 (d) | 18 (c) | 19 (b) | 20 (c) |
| 21 (c) | 22 (c) | 23 (d) | 24 (a) | 25 (c) | 26 (d) | 27 (b) | 28 (b) | 29 (a) | 30 (b) |
| 31 (c) | 32 (d) | 33 (b) | 34 (b) | 35 (a) | 36 (d) | 37 (b) | 38 (d) | 39 (c) | 40 (b) |
| 41 (c) | 42 (d) | 43 (b) | 44 (d) | 45 (b) | 46 (b) | 47 (d) | 48 (d) | 49 (c) | 50 (b) |
| 51 (b) | 52 (b) | 53 (b) | 54 (b) | 55 (c) | 56 (d) | 57 (d) | 58 (a) | 59 (d) | 60 (c) |
| 61 (a) | 62 (b) | 63 (a) | 64 (b) | 65 (d) | 66 (b) | 67 (a) | 68 (a) | 69 (b) | 70 (d) |
| 71 (b) | 72 (b) | 73 (c) | 74 (b) | 75 (c) | 76 (a) | 77 (b) | 78 (c) | 79 (b) | 80 (b) |
| 81 (d) | 82 (b) | 83 (a) | 84 (c) | 85 (c) | 86 (d) | 87 (b) | 88 (d) | 89 (d) | 90 (a) |
| 91 (d) | 92 (d) | 93 (d) | 94 (a) | 95 (d) | 96 (c) | 97 (c) | 98 (d) | 99 (b) | 100 (d) |



Hints & Solutions

1. (b) 'Lunatic' is the one who is mentally not sound.
2. (a) 'Ignorant' means who does not have knowledge. Hence, 'learned' is the correct antonym of it.
3. (a) Part (a) has an error. Replace it with 'very strong currents' to improve the sentence.
4. (c) 'Ambidextrous' is the one who can use both hands equally well.
5. (c) Part (c) has an error. Replace it with 'was enjoying' to make the sentence grammatically correct.
6. (b) 'Angry' means furious and 'enraged' also means the same. Hence, option (b) is the correct answer.
7. (c) 'Wane' means to decline. Hence, option (c) 'decline' is the correct synonym.
8. (b) 'Partner' means with whom you work. 'Opponent' means whom you compete with. Hence, option (b) 'opponent' is the correct antonym of the given word 'partner'.
9. (d) 'Maintainance' is the incorrectly spelt word. The correct spelling is 'maintenance'.
10. (c) The given idiom 'a bolt from the blue' means unexpected and surprising event.
11. (b) Replace the underlined part with 'sometimes it prefers to' to improve the sentence.
12. (b) Part (b) has an error. Replace it with 'was made' to make the sentence, error free.
13. (d) 'Without' is the correct answer, as it is the famous saying no smoke without fire.
14. (d) 'Allmighty' is an incorrectly spelt word. The correct spelling is 'Almighty'.
15. (c) 'Ambitious' is the suitable word for the given blank.
16. (c) No substitution required in given sentence.
17. (d) 'Precautions' is the correct answer.
18. (c) Replace the underlined part with 'aren't they' to improve the sentence.
19. (b) The given idiom 'herculean task' means very tough task.
20. (c) 'Quite' is the suitable adverb for the given blank.
21. (c) 'At' is the correct answer.
22. (c) 'Was featured' is the correct answer.
23. (d) 'Richest' is the correct answer.
24. (a) 'The' is the correct answer.
25. (c) 'Benevolent' is the correct answer.
26. (d) All the shapes or symbols at the corners of regular pentagon move clockwise and only left-lower shape/symbol disappears, when moves from its place and a new shape/symbol comes at next corner.
∴ Next figure will be option figure (d).
27. (b) Given expression $6 \times 35 \div 5 + 8 - 9$

On interchanging + and \times , and the digits 3 and 8

$$= 6 + 85 \div 5 \times 3 - 9 = 6 + 17 \times 3 - 9$$

$$= 6 + 51 - 9 = 57 - 9 = 48$$

28. (b) Given expression $8 \div 16 \times 4 + 2 - 3$

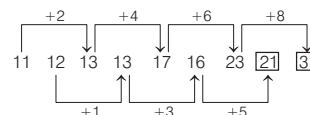
On changing the signs according to the question,

$$\Rightarrow 8 + 16 \div 4 - 2 \times 3$$

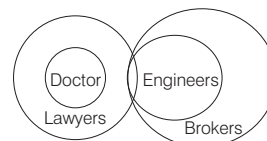
Since, BODMAS rule does not apply according to the question, so solve left to right of the expression.

$$\therefore 8 + 16 \div 4 - 2 \times 3 = 24 \div 4 - 2 \times 3 = 6 - 2 \times 3 = 4 \times 3 = 12$$

29. (a) Pattern of the series is as follows,



30. (b) From statements,



Conclusions 1. (×) 2. (✓) 3. (×) 4. (✓)

∴ Only Conclusions 2 and 4 follow.

31. (c) Pattern of the given series,

$\underline{a} \ c \ \underline{b} \ d \ d / \underline{b} \ c \ a / \underline{a} \ c \ b \ d \ d / \underline{b} \ c \ a \Rightarrow abbac$

32. (d) Option figure (d) is embedded in the given question figure.



33. (b) According to the given information, 6 papers are scheduled from Monday to Saturday as follows,

| Day | Paper |
|-----------|-----------|
| Monday | Physics |
| Tuesday | Geography |
| Wednesday | Chemistry |
| Thursday | History |
| Friday | Maths |
| Saturday | Economics |

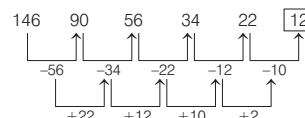
∴ Economics is scheduled on Saturday.

34. (b) According to the given information, five papers scheduled on five days are as follows,

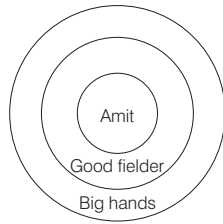
| Day | Paper |
|-----------|-----------|
| Monday | Economics |
| Tuesday | Maths |
| Wednesday | Chemistry |
| Thursday | Geography |
| Friday | Physics |

∴ Geography was scheduled on Thursday.

35. (a) Pattern of the given series is as follows,



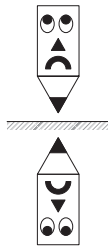
36. (d) From statements,



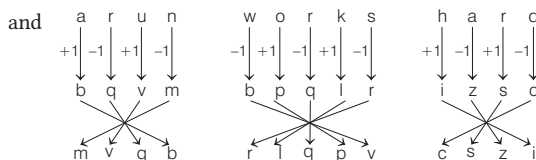
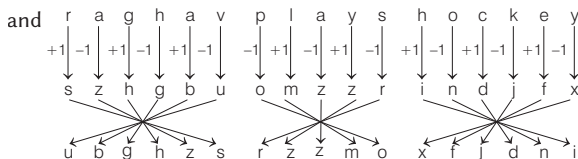
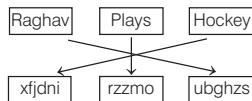
Conclusions I. (×) II. (✓)

∴ Only Conclusion 2 follows.

37. (b) Option figure (b) will be the correct mirror image of the given figure.



38. (d) As, in (64, 8, 65) $\Rightarrow 64 - 8 = 56$
 \Rightarrow interchange digits = 65
 In (125, 27, 89) $\Rightarrow 125 - 27 = 98 \Rightarrow 89$
 \therefore Similarly, in (83, 24, 95) $\Rightarrow 83 - 24 = 59 \Rightarrow 95$
 39. (c) Given code,

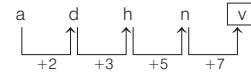


∴ In the similar pattern, code for "arun works hard" will be "cszi rlpqv mvqb".

40. (b) As, in 46 : 61
 \Rightarrow reverse the digits of numbers, we get
 $\Rightarrow 64 : 16 = (4)^3 : (4)^2$
 In the similar way, in 521 : 52
 \Rightarrow reverse the digits of numbers
 $\Rightarrow 125 : 25 = (5)^3 : (5)^2$
 \therefore "521 : 52" is analogous to "46 : 61"

41. (c) Bismillah Khan, JRD Tata, M Visvesvaraya, Sachin Tendulkar and Pranab Mukherjee are Bharat Ratna Awardee.

42. (d) Pattern of the given series, letters between two given letters are in prime numbers.
 letters between a and d = 2
 letters between d and h = 3
 letters between h and n = 5
 letters between n and v = 7



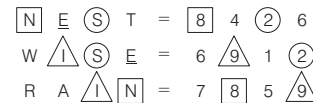
43. (b) Only vowel's place or sum of total vowels place is the code of the words.

∴ Storm = 15 (o's place), Apple = 1 + 5 = 6,

Virtue = 9 + 21 + 5 = 35

and therefore, cupboard = 21 + 15 + 1 = 37

44. (d) Given,



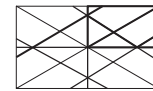
∴ Code for T = 4, for W = 1, for N = 8

and since letters do not correspond to digit, therefore code for A = 7

∴ W A N T \Rightarrow 8 1 4 7

45. (b) Given, transparent sheet of paper would appear like option figure, (b), when it is folded at the dotted line.

46. (b) Option figure (b) will complete the pattern, when placed in the blank space of the given figure.



47. (d) Aditya's statement

Sanika
 Aditya \uparrow increasing height
 Nachiket

Rushikesh's statement

Sanika
 Rushikesh \uparrow increasing height
 Aditya

Nachiket's statement

Nachiket = Rushikesh \uparrow increasing height
 Nikita

Sanika's statement I am the tallest

Nikita's statement

Aditya \uparrow increasing height
 Rushikesh

Since one of them is lying, so according to this information given above. He is Rushikesh. After neglecting Rushikesh's statement, correct order will be,

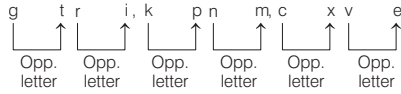
Sanika > Aditya > Nachiket = Rushikesh > Nikita

∴ Aditya is second tallest person in the group.

48. (d) According to the given venn-diagram,

Number of fishermen = $1 + 2 + 3 + 4 = 10$

49. (c) Pattern of the given letter-clusters is as follows,



But in dwfv, f and v are not opposite letters in English Alphabets.

∴ dwfv is different from others.

50. (b) As, Aluminium is a good conductor, similarly, mica is a good insulator.

51. (b) According to the given bar graph,

$$\text{Required ratio} = \frac{(50 + 80)}{(60 + 90)} = \frac{130}{150} \\ = 13 : 15$$

52. (b) Let the number of persons required be x .

∴ According to the question,

$$x \times 10 \times 4 = 20 \times 8 \times 15 \\ x = \frac{20 \times 8 \times 15}{10 \times 4} = 60$$

53. (b) Let the cost price of the article be ₹ x .

∴ According to the question,

$$\text{Marked price} = \frac{450}{90} \times 100 = ₹ 500$$

∴ Discount is not given,

$$\therefore 50\% \text{ of cost price} = \frac{50}{100} \times \frac{500}{125} \times 100 \\ = ₹ 200$$

54. (b) Let the incomes of A and B be ₹ x and ₹ $2x$ respectively and let the expenditures of A and B be ₹ $2y$ and ₹ $3y$ respectively.

According to the question, $x = 80\% \text{ of } 3y$

$$= 0.8 \times 3y = 2.4y$$

$$\therefore \text{Ratio of saving B to A} = \frac{2x - 3y}{x - 2y} \\ = \frac{2 \times 2.4y - 3y}{2.4y - 2y} \\ = \frac{1.8y}{0.4y} \\ = \frac{18}{4} = 9 : 2$$

55. (c) Let the cost of the scooter be ₹ x .

According to the question,

$$\Rightarrow 107062.50 + x = 132000 \times \left(1 + \frac{12.5}{100}\right)^2 \\ \Rightarrow 107062.50 + x = 132000 \times 1.265625 \\ \Rightarrow 107062.50 + x = 167062.5 \\ \Rightarrow x = 167062.5 - 107062.5 \\ \therefore x = 60000$$

56. (d) $\left(4\frac{1}{5} - 3\frac{1}{10} \text{ of } 1\frac{1}{7}\right) \div \left(6\frac{1}{3} - 3\frac{1}{5} \text{ of } 1\frac{1}{2}\right)$

Solving using BODMAS,

$$= \left(\frac{21}{5} - \frac{31}{10} \text{ of } \frac{8}{7}\right) \div \left(\frac{19}{3} - \frac{16}{5} \text{ of } \frac{3}{2}\right) \\ = \left(\frac{21}{5} - \frac{124}{35}\right) \div \left(\frac{19}{3} - \frac{24}{5}\right) \\ = \left(\frac{147 - 124}{35}\right) \div \left(\frac{95 - 72}{15}\right) \\ = \frac{23}{35} \times \frac{15}{23} = \frac{3}{7}$$

57. (d) According to the question,

Range of the given data = $360 - 270 = ₹ 90$

58. (a) Given, $CP = \frac{7}{6} \times SP$

Since $CP > SP$, therefore there will be loss.

∴ Loss percentage

$$= \frac{\left(\frac{7}{6} - 1\right)}{\left(\frac{7}{6}\right)} \times 100 = \frac{100}{7} = 14.29\%$$

59. (d) Since, area of trapezium = $\frac{1}{2} \times \text{sum of parallel sides} \times h$

∴ According to the question,

$$330 = \frac{1}{2} \times (25 + 19) \times h \\ h = \frac{330 \times 2}{44} = 15 \text{ cm}$$

60. (c) Let the cost price of each of 6 books be ₹ 1.

Total money for 6 books = $6 \times 1 = ₹ 6$

∴ According to the question,

$$\therefore \text{Required rate of interest} = \frac{(7 - 6)}{6} \times 100 \\ = \frac{100}{6} = 16.7\%$$

61. (a) Let C completes the work in x days.

∴ According to the question,

$$\frac{1}{10} + \frac{1}{15} + \frac{1}{x} = \frac{1}{5} \\ \Rightarrow \frac{1}{x} = \frac{1}{5} - \frac{1}{15} = \frac{6 - 1}{30} = \frac{1}{30}$$

∴ Ratio of efficiencies of A, B and C

$$= \frac{1}{10} : \frac{1}{15} : \frac{1}{30} = 3 : 2 : 1$$

Since, total wages = ₹ 42000

$$\therefore \text{Share of B} = \frac{42000}{(3 + 2 + 1)} \times 2 = ₹ 14000$$

62. (b) Distance covered by aeroplane

$$= 280 \times \frac{19}{4} = 1330 \text{ km}$$

∴ To cover the same distance in 7 h

$$\text{Speed} = \frac{1330}{7} = 190 \text{ km/h}$$

63. (a) According to the given bar-graph,

Average target production of AC's in 5 months

$$= \frac{60 + 30 + 80 + 90 + 100}{5}$$

$$= \frac{360}{5} = 72$$

$$\therefore \text{Required percentage increase} \\ = \frac{(120 - 72) \times 100}{72} = 66.66\% \approx 67\%$$

64. (b) Percentage increase of actual production than the target production,

In April, it is decreasing.

$$\text{In February} = \frac{(50 - 30)}{30} \times 100 = 66.67\%$$

$$\text{In March} = \frac{(100 - 80)}{80} \times 100 = 25\%$$

$$\text{In May} = \frac{(120 - 100)}{100} \times 100 = 20\%$$

\therefore Only in February, it is increasing more than 66%.

65. (d) Radius of cylinder, $r = 4$ cm.

Let height of cylinder be h m.

\therefore Curved surface area of cylinder $= 2\pi rh$

$$\Rightarrow 19.5 = 2 \times \frac{22}{7} \times 4 \times h$$

$$\Rightarrow h = \frac{19.5 \times 7}{2 \times 22 \times 4}$$

$$\text{Volume of cylinder} = \pi r^2 h \\ = \frac{22}{7} \times 16 \times \frac{19.5 \times 7}{2 \times 22 \times 4} = 2 \times 19.5 = 39 \text{ m}^3$$

66. (b) Given,

$$\left[\frac{3}{5} \text{ of } \left(15\frac{2}{3} - 33\frac{1}{3} \right) + \frac{1}{3} \left(18\frac{3}{4} \text{ of } 7\frac{1}{5} + 15 \times 2 \right) \right] \times 5 \\ \frac{(3)^2 \times 5 + 1}{\left[\frac{3}{5} \text{ of } \left(\frac{47}{3} - \frac{100}{3} \right) + \frac{1}{3} \left(\frac{75}{4} \text{ of } \frac{36}{5} + 15 \times 2 \right) \right] \times 5} \\ \frac{9 \times 5 + 1}{\left[\frac{3}{5} \text{ of } \frac{-53}{3} + \frac{1}{3} \times 18 \right] \times 5} \\ = \frac{46}{\left[\frac{-53}{5} + 6 \right] \times 5} \\ = \frac{-23 \times 5}{46 \times 5} = \frac{-1}{2}$$

67. (a) Let the average score of boys be x .

\therefore According to the question,

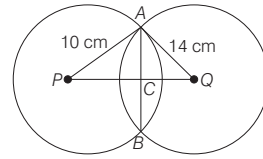
$$\frac{70 \times 1.2x + 30 \times x}{100} = 57 \\ 114x = 5700 \\ x = \frac{5700}{114} = 50$$

$$\therefore \text{Average score of girls} = 1.2x = 1.2 \times 50 \\ = 60$$

68. (a) Sum of the lengths of both trains = Relative speed \times Time.

$$= (44 - 32) \times \frac{5}{18} \times 72 = 240 \text{ m}$$

69. (b) Given,



Since, $AB = 16$ cm (given)

$$\therefore AC = \frac{16}{2} = 8 \text{ cm}$$

\therefore Distance between their centres

$$= (\sqrt{(14)^2 - (8)^2}) + (\sqrt{(10)^2 - (8)^2}) \\ = \sqrt{132} + \sqrt{36} = 2\sqrt{33} + 6 \\ = (6 + 2\sqrt{33}) \text{ cm}$$

70. (d) Given, saving during year = ₹ 32500

and According to the question, total expenditure of the year

$$= (10000 \times 3) + (12500 \times 4) + (13500 \times 5) \\ = ₹ 147500$$

\therefore Total income of the year

$$= 147500 + 32500 = ₹ 180000$$

\therefore 70 % of average monthly income

$$= \frac{70}{100} \times \frac{180000}{12} = ₹ 10500$$

71. (b) Let the number of candidates, who passed be $5x$ and who failed be $2x$.

\therefore According to the question,

$$\frac{5x - 14}{2x + 14} = \frac{4}{3}$$

$$\Rightarrow 15x - 42 = 8x + 56$$

$$\Rightarrow 15x = 8x + 98$$

$$\Rightarrow 15x - 8x = 98$$

$$\Rightarrow 7x = 98$$

$$\Rightarrow x = \frac{98}{7} = 14$$

\therefore Number of passed candidates $= 5x = 5 \times 14 = 70$

72. (b) The largest number which divides the numbers x and y leaving remainder a and b respectively, is given by

HCF of $(x - a), (y - b)$

\therefore According to the question,

HCF of $(1992 - 12), (233 - 13)$

HCF of 1980 and 220

Since $1980 = 9 \times 220$

\therefore HCF of 1980 and 220 will be 220.

73. (c) Given, $x : y : z = 1 : 2 : 3$

$$\therefore \left(\frac{3x^2 - 2y^2 + 4z^2}{x^2 + 2y^2 + z^2} \right) = \left(\frac{3 \times 1^2 - 2 \times 2^2 + 4 \times 3^2}{1^2 + 2 \times 2^2 + 3^2} \right) \\ = \left(\frac{3 \times 1 - 2 \times 4 + 4 \times 9}{1 + 2 \times 4 + 9} \right) \\ = \frac{3 - 8 + 36}{1 + 8 + 9} \\ = \frac{39 - 8}{18} = \frac{31}{18}$$

74. (b) Let the cost price of the article to A be ₹ x .

∴ Cost price of the article to B = $1.12x$

and cost price of the article to C = $\frac{1.12x}{100} \times 90$

According to the question,

$$\frac{1.12x}{100} \times 90 = 15288$$

$$1.12x = ₹ 16986.67 \approx ₹ 16800$$

∴ Required price = ₹ 16800 (approx.)

75. (c) Required percentage

$$= \frac{(150 - 125)}{150} \times 100 = 16.67\%$$

76. (a) Lothal was one of the Southernmost cities of the ancient Indus Valley Civilisation, located in the Bhal region of the modern state of Gujarat. Construction of the city began around 2200 BCE.

77. (b) Amartya Sen's capability theory approach is a theoretical framework that involves two core normative claims. The capability approach claims that freedom to achieve well-being is a matter of what people can do and be. And therefore, the kind of life they can effectively lead.

78. (c) Jagdish Sheth is a faculty member at Emory University, Georgia and came from the University of Madras. He has been awarded the Padma Bhushan for his work in the field of literature and education on 26th January, 2020.

79. (b) The Charter Act of 1813 ended the monopoly of the East India Company in India. However, the company's monopoly in trade with China and trade in tea with India was kept intact. Thus, trade with India for all commodities except Tea was thrown open to all British subjects.

80. (b) Yamuna Expressway Project between Greater Noida and Agra, the longest Access Controlled six lane (extendable to eight lanes) concrete pavement expressway was conceived by Government of Uttar Pradesh in the year 2001. To accomplish this project, Taj Expressway Authority (TEA), a statutory body of the Government.

81. (d) President Ram Nath Kovind has nominated and formed Chief Justice of India Ranjan Gogoi to the Rajya Sabha. A notification to this effect was issued by the centre on 16th March, 2020.

82. (b) Mission Antyodaya is a mission mode project envisaged by the Ministry of Rural Development. It is a convergence framework for measurable effective outcomes on parameters that transform lives and livelihoods.

83. (a) East Karakoram Range K2 is also known as Mount Godwin Austen and locally it is known as Dapsang or Chogori is the World's second-highest peak. K2 is located in the Karakoram Range. It was given the symbol K2 because it was the second peak measured in the Karakoram Range.

84. (c) Debendranath Tagore (15th May, 1817 – 19th January, 1905) was a Hindu Philosopher and religious reformer, active in the Brahmo Samaj (earlier called Bhramho Sabha) ('Society of Brahma', also translated as Society of God). He was the founder in 1848 of the Brahmo religion, which today is synonymous with Brahmoism.

85. (c) In 1992, the 73rd Constitution Amendment Act was passed, and it took effect on 24th April, 1993. The Act gave State Governments the authority to take the procedures necessary to formalise Gram Panchayats and enable them to function as self-governing bodies. This act added a new Part-IX to the Indian Constitution.

86. (d) The final took place at the Melbourne Cricket Ground on International Women's Day. Hosts Australia won the tournament, beating India by 85 runs, to win their fifth title.

87. (b) Nathi is the most famous dance of Himachal Pradesh. It is listed in the Guinness world record book as the largest folk dance. This folk dance is also said to consist of different forms that includes Mahasuvi Nathi, Sirmauri Nathi, Lahauli Nathi, and Kinnauri Nathi.

88. (d) The Ganges-Brahmaputra Delta, also named Ganges Delta, Sunderban Delta or Bengal Delta is situated in Asia where the Ganges and Brahmaputra Rivers discharge into the Bay of Bengal.

89. (d) Annie Besant launched the Home Rule League in September, 1916 at Madras. They had the common objective of achieving self-government in India. There was an informal understanding between both the leagues wherein Tilak's league worked in Maharashtra (except Bombay), Karnataka, Berar and the Central Provinces.

90. (a) Myopia, also known as near-sightedness, is a very common vision disorder that is usually diagnosed before age 20. Myopia affects your distance vision. You can see objects that are near well, but have trouble viewing objects that are far, such as grocery store aisle markers or road signs.

91. (d) Hockey captains Manpreet Singh and Rani Rampal were on Tuesday nominated for Dhruv Batra Player of the Year award in male and female category respectively by Hockey India for its third Annual Awards scheduled on 8th March.

92. (d) The 'Anarchy : the Relentless Rise of the East India Company' is a 2019 history book by William Dalrymple. It recounts the rise of the East India Company in the second half of the 18th century, against the backdrop of a crumbling Mughal Empire and the rise of regional powers.

93. (d) Sublimation is the transition of a substance directly from the solid to the gas phase, without passing through the liquid phase. The reverse process of sublimation is deposition or desublimation, in which a substance passes directly from a gas to a solid phase.

94. (a) The Banking Regulation (Amendment) Ordinance, 2020. It brings urban and multi-state cooperative banks under the supervision of the Reserve Bank of India. The Act restricts cooperative banks from making loans or advances on the security of its own shares. Further, it prohibits the grant of unsecured loans or advances to its directors, and to private companies where the bank's Directors or Chairman is an interested party.

95. (d) The Charama and Kurna communities of Kanker district, tribes of Bastar and people of Bhanupratappur, Narayanpur, Kondagaon, Pakhanjore and Antagrah celebrate the Madai Festival in the state of Chhattisgarh. The local tribes of the state along with other communities worship the presiding deity during the festival.

96. (c) Virus is the causative agent causes the disease of Ebola. Ebola virus was first discovered in 1976 near the Ebola River. It is a member of the filovirus family, which occurs in humans and other primates. Ebola is spread by direct contact with blood or other body fluids (such as vomit, diarrhea, urine, breast milk, sweat and semen) of an infected person who has symptoms of Ebola.
97. (c) Under Article 22 (2) Every person who is arrested and detained in custody shall be produced before the nearest magistrate within a period of twenty-four hours of such arrest excluding the time necessary for the journey from the place of arrest to the court of the magistrate and no such person shall be detained in custody beyond the said period without the authority of a magistrate.
98. (d) The MUDRA loans are extended under following three categories. Loans upto ₹ 50,000/- (Shishu), Loans from ₹ 50,001 to ₹ 5 lakh (Kishore), Loans from ₹ 5,00,001/- to ₹ 10 lakh (Tarun), more focus would be given to Shishu.
99. (b) Weight is the force exerted by gravity and is measured in Newtons (N). On Earth, an object with a mass of 1kg will experience a force of 10 N due to gravity, i.e. the weight of a 1kg mass is 10 N.
100. (d) The ozone layer is a thin part of the Earth's atmosphere that absorbs almost all of the sun's harmful ultraviolet light. Ozone contains three atoms of oxygen.

SSC Multi-Tasking Exam

Solved Paper

02 November, 2021
I Shift

Instructions

- ✓ This paper contains 100 questions.
- ✓ This paper has 4 parts, Part I General English, Part II General Intelligence & Reasoning, Part III Numerical Ability, Part IV General Awareness
- ✓ Each question carries 1 mark.



General English

- Select the most appropriate synonym of the given word.
Fascinate
(a) Reject
(b) Captivate
(c) Repel
(d) Love
- Select the incorrectly spelt word.
(a) Pastor (b) Paste
(c) Prevelent (d) Prudent
- Select the most appropriate word to fill in the blank.
In the absence any evidence, the police let the suspect go scot free.
(a) of (b) from
(c) in (d) by
- Identify the segment in the sentence which contains a grammatical error.
Avoid the puddles caused by the downpour was quite a problem while I was driving.
(a) Avoid the puddles
(b) was quite a problem
(c) while I was driving
(d) caused by the downpour
- Select the most appropriate synonym of the given word.
Foment
(a) Incite (b) Inspire
(c) Imply (d) Ignore
- Identify the segment in the sentence which contains a grammatical error.
Every country tries to do its good at the Olympic games as they are held in great prestige.
(a) they are held (b) Every country
(c) its good (d) tries to do
- Select the most appropriate antonym of the given word.
Farsighted
(a) Cautious (b) Proactive
(c) Unwise (d) Careful
- Select the most appropriate word to fill in the blank.
There were many students all the answers.
(a) those knew (b) that knows
(c) who knowing (d) who knew
- Select the most appropriate meaning of the given idiom.
He who laughs last laughs loudest
(a) Success in early life ensures success later also
(b) He who laughs last has more energy
(c) The person who understands the joke late laughs loudest
(d) He who focuses on winning in the long term is successful
- Select the most appropriate antonym of the given word.
Abandon
(a) Abhor (b) Agree
(c) Abolish (d) Support
- Select the most appropriate word to fill in the blank.
The new recruit was to impress his superiors.
(a) sincere (b) cordial
(c) eager (d) intend
- Select the word which means the same as the group of words given.
A group of wolves
(a) Pack (b) Flock (c) Troop (d) Tribe
- Select the word which means the same as the group of words given.
Scientific study of the nervous system and brain
(a) Neuroscience
(b) Nephrology
(c) Cardiology
(d) Psychology
- Select the incorrectly spelt word.
(a) Pomegranate (b) Practice
(c) Pnemonia (d) Platter
- Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
My parents usually go for a walk before they go to bed.
(a) usual went
(b) No substitution required
(c) are usually going
(d) were usually gone

16. Identify the segment in the sentence which contains a grammatical error.
The old lady finds it difficult to climb the steep steps of the train and asked for help.
(a) finds it (b) of the train
(c) the steep steps (d) difficult to climb
17. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
India's market for electronic goods is one of the large market in the world.
(a) ones of the largest market
(b) one of the largest markets
(c) No substitution required
(d) one of the larger market
18. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
I've discussed all the options with you. There are no more options available for you.
(a) not more (b) none more
(c) anymore
(d) No substitution required

19. Select the most appropriate meaning of the given idiom.
Much ado about nothing
(a) Doing a lot and getting nothing in return
(b) Making a big fuss over a small thing
(c) Nothing happening without work
(d) Doing nothing in return
20. Select the most appropriate word to fill in the blank.
He was unpopular with his team as he was a scheming and person.
(a) willing (b) conniving
(c) helpful (d) honest

Directions (Q Nos. 21-25) *In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.*

The coronavirus (1) mostly through droplets that people send (2) when they talk, sneeze, or cough. These usually don't stay in the air (3) and they don't go farther than six feet. But the coronavirus might also travel (4) tiny aerosol particles that can linger in the air for up to three hours and travel farther away. You might also catch the coronavirus if you

touch something an infected person (5) and then touch your eyes, nose, or mouth.

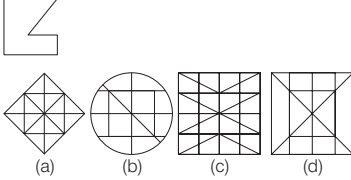
21. Select the most appropriate option to fill in the blank no. 1.
(a) goes (b) prepares
(c) spreads (d) expands
22. Select the most appropriate option to fill in the blank no. 2.
(a) out (b) apart
(c) in (d) away
23. Select the most appropriate option to fill in the blank no. 3.
(a) for small
(b) for long
(c) smaller
(d) longer
24. Select the most appropriate option to fill in the blank no. 4.
(a) under (b) by
(c) through (d) before
25. Select the most appropriate option to fill in the blank no. 5.
(a) are touching
(b) has touched
(c) is touch
(d) would be touch



General Intelligence & Reasoning

26. If STRICTURE is coded as TSUTCIRER, then how would INCULCATE be coded?
(a) NIUCLLAT (b) NIACLUCET
(c) NIALCCUET (d) CNICLUETA
27. Which number will replace the question mark (?) in the following number series?
5, 4, 6, 15, 56, ?
(a) 195 (b) 200
(c) 275 (d) 330
28. If the signs – and ÷ are interchanged, then which of the following equations would be correct?
(a) $8 \times 12 - 6 \div 3 = 12$
(b) $12 \div 4 \times 3 - 6 = 10$
(c) $4 - 8 \times 16 \div 4 = 6$
(d) $8 + 12 - 6 \div 3 = 9$
29. If BANKER is coded as CAMKFR, then how would INDIAN be coded?
(a) JNEIBN (b) JNCIBN
(c) HMCIZN (d) JMCIZL
30. Select the number-pair in which the two numbers are related in the same way as the two numbers of the pair given below.
10 : 24
(a) 140 : 165
(b) 48 : 99
(c) 50 : 80
(d) 70 : 120
31. Eight friends A, B, C, D, E, F, G and H are sitting around a square table facing the centre.
I. B is facing D and is sitting to the right of E.
II. F, who is a neighbour of D, is facing G.
III. There are two persons between C and H and H is not facing E.
Who might be sitting between C and E, if there is only person between them?
(a) D (b) A
(c) G (d) B
32. If BANK is coded as 32 and BRAKE is coded as 42, then how would CLEVER be coded?
(a) 66 (b) 68
(c) 75 (d) 71
33. A medical representative visited the doctors P, Q, R, S, T and U from Monday to Saturday- only one doctor per day.
1. He visited U on some day before visiting R and T.
2. He visited P on the previous day of visiting S, but not on Thursday.
3. He did not visit either Q or S on the last day.
4. He visited Q just after U, but not on Tuesday.
Which are the two doctors he visited on the first two days?
(a) S and U
(b) U and Q
(c) P and U
(d) P and S

34. Select the option figure in which the given figure is embedded (rotation is not allowed).



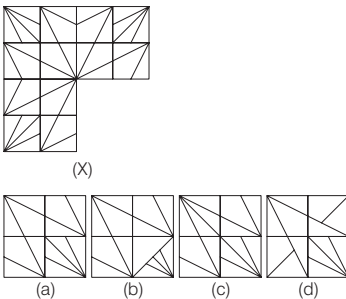
35. 'Track' is related to 'Athlete' in the same way as 'Classroom' is related to '.....'.
(a) Student (b) Teaching
(c) Study (d) School

36. Two statements are followed by two conclusions numbered I and II. Assuming the statements to be true, even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follows/follow from the statements.
Statements 1. Some plants are trees.
2. All herbs are plants.

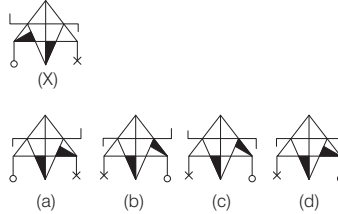
Conclusions

- I. Some plants are herbs.
II. All herbs are trees is a possibility.
(a) Neither Conclusion I nor Conclusion II follows
(b) Only Conclusion II follows
(c) Both Conclusions I and II follow
(d) Only Conclusion I follows
37. 'Entertainment' is related to 'Television' in the same way as 'Warmth' is related to '.....'.
(a) Temperature (b) Proximity
(c) Woollens (d) Day
38. Which letter-cluster will replace the question mark (?) in the following series?
CED, FJH, KQN, ?, AKF
(a) SZT (b) QZV (c) RZV (d) RXU

39. Select the option figure, which when placed in the blank space of the figure marked 'X', would complete the pattern.



40. Select the mirror image of the figure marked 'X', when the mirror is placed on the right side of the figure.

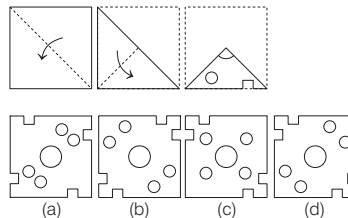


41. Six girls are sitting in a row, facing North.
1. Navika is to the immediate left of Seema, whose neighbour is Sabnam.
2. Hima is sitting at one end of the row, but not Sabnam.
3. Rupali is between Vinita and Navika.
Who is sitting at the other end of the row?
(a) Navika (b) Vinita
(c) Rupali (d) Seema

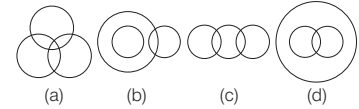
42. Choose the set of numbers that is similar to the following set.
{16, 30, 36}
(a) {12, 24, 32}
(b) {14, 32, 48}
(c) {16, 48, 64}
(d) {9, 24, 25}

43. Which two signs should be interchanged to make the given equation correct?
 $12 \div 2 \times 6 + 4 - 2 = 13$
(a) \times and $-$
(b) \times and $+$
(c) $+$ and \div
(d) $+$ and $-$

44. The sequence of folding a piece of paper and the manner in which the folded paper has been cut is shown in the three figures below. How would the paper look, when unfolded?



45. Select the Venn diagram that best illustrates the relationship among the following classes.
Black-haired people, Tall persons, Weightlifters



46. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.
GILP : TPMK :: DGKP : ?

- (a) WURN (b) WRNK
(c) WTPK (d) VQMJ

47. If ACTOR is coded as 86739, then how would SPREAD be coded?
(a) 829485 (b) 179514
(c) 718374 (d) 819263

48. Which number will replace the question mark (?) in the following number series?
5, 7, 9, 11, 18, ?, 34, 35, 59, 67
(a) 19 (b) 27 (c) 17 (d) 21

49. Three statements are followed by three conclusions numbered I, II and III. Assuming the statements to be true, even if they do not conform to real-world knowledge, decide which of the conclusion(s) logically follows/follow from the statements.

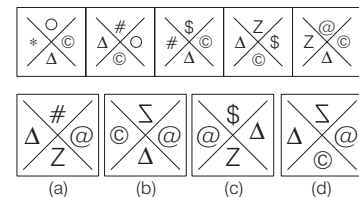
Statements

- (1) No cup is a plate.
(2) All plates are cutleries.
(3) No cutlery is a spoon.

Conclusions

- I. Some cutleries are plates.
II. No cutlery is a cup.
III. Some spoons being cups is a possibility.
(a) Only Conclusions II and III follow
(b) Only Conclusion III follows
(c) Only Conclusions I and III follow
(d) All Conclusions I, II and III follow

50. Which option figure would come next in the following figure series?





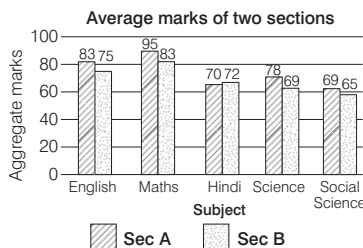
Numerical Ability

51. The value of $16 + [0.2 \div 0.004 + 5.2 \div 2 \div (0.7 \times 2 + 0.84 \div 0.7)]$ is
(a) 75 (b) 65 (c) 60 (d) 70

52. What is the value of the following expression?
 $108 \div 18 \times 3 - 64 \times 2 \div 32 + 80 \div 5$ of 4
(a) 78 (b) 62 (c) 2 (d) 18

53. A room has length 15 ft, width 12 ft and height 10 ft. It has one door of dimensions 8 ft and 3.5 ft and 2 windows of size 5 ft \times 3 ft. Find the cost of painting the four walls and the ceiling at ₹ 50 per ft².
(a) ₹ 19600 (b) ₹ 21200
(c) ₹ 24100 (d) ₹ 33100

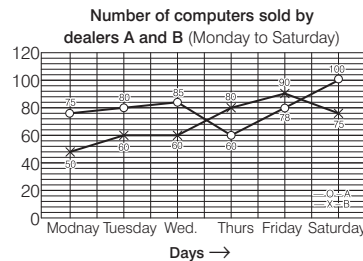
54. The average marks of the students of section A and section B of class XI in a school have been presented in the following bar graph.



In which subject is difference in the average marks of the two sections the highest?

- (a) English (b) Maths
(c) Science (d) Social Science
55. Sushant bought the goods for ₹ 8000. He got 10% discount at that goods. After discount, he paid of tax at rate 7.5%. Find the amount, that he will be paid for it goods to get at resident, if the shopkeeper take ₹ 200 for home delivery.
(a) ₹ 7940 (b) ₹ 8155
(c) ₹ 9660 (d) ₹ 6851
56. A bucket in the shape of the frustum of a cone has its top and bottom radii as 20 cm and 10 cm, respectively. The depth of the bucket is 24 cm. The capacity of the bucket is $\left(\text{Take } \pi = \frac{22}{7} \right)$
(a) 8800 cm³ (b) 13200 cm³
(c) 17000 cm³ (d) 17600 cm³

57. Study the given graph and answer the question that follows.



What is the difference between the total number of computers sold by dealer A on Monday, Tuesday and Friday and total number of computers sold by dealer B on Wednesday, Thursday and Saturday?

- (a) 24 (b) 18 (c) 21 (d) 17
58. If $x : y = 5 : 7$, then $(6x - y) : (5x + 3y)$ is equal to
(a) 1 : 4 (b) 11 : 2 (c) 4 : 1 (d) 1 : 2
59. A shopkeeper earns 25% profit, if he sells an article at 10% discount on the marked price ₹ 2500. Find his profit.
(a) ₹ 450 (b) ₹ 400
(c) ₹ 375 (d) ₹ 350
60. A truck driver has to cover a total distance of 260 km in 4 h. He drives at a speed of 56 km/h for the first 75 min, and the next 90 km at a speed of 60 km/h. At what speed (in km/h) must he drive the remaining distance in order to complete the journey in 4 h?
(a) 65 (b) 58
(c) 80 (d) 75
61. If a man completes $\frac{3}{7}$ work in 6 days, then how many more days will he require for completing the remaining work?
(a) 8 (b) 14
(c) 9 (d) 7
62. Find the smallest number such that, when it is divided by 5, 6 and 8, it leaves a remainder 3 in each case.
(a) 243 (b) 123
(c) 117 (d) 792
63. The average of the square of first seven natural numbers is
(a) 16 (b) 29 (c) 25 (d) 20

64. The average of three numbers is 45. The first number is thrice the second and the second number is twice the third. Find the difference between the first number and the second number.
(a) 75 (b) 45 (c) 60 (d) 15

65. Shekhar walked a distance at a speed of 8 km/h. He was in a hurry, so on the return journey he travelled in an autorickshaw at a speed of 24 km/h. Find his average speed for the entire journey.
(a) 20 km/h (b) 32 km/h
(c) 12 km/h (d) 16 km/h

66. If a sum increases by 21% after 2 yr, then the rate of compound interest per annum, when compounded annually must be
(a) 10.5% (b) 11.5%
(c) 10% (d) 11%

67. A shopkeeper purchased 20 dozen pens at the rate of ₹ 190 per dozen, and spent ₹ 200 as to and for expenses to the wholesale market. He sold the pens at the rate of ₹ 22/pen. Find his profit percentage.
(a) $38\frac{18}{19}\%$ (b) 20%
(c) 22% (d) 32%

68. Ratio between average of first four prime numbers and first four composite numbers is
(a) 13 : 10 (b) 17 : 27
(c) 11 : 27 (d) 17 : 19

69. A container has 30 L of milk from which 3 L of milk is taken out and replaced with water. The process is done three times. What is the final ratio of the water and the milk in the container?
(a) 729 : 271 (b) 19 : 81
(c) 81 : 19 (d) 271 : 729

70. Two kinds of rice, the first costing ₹ 65 per kg and the second ₹ 95 per kg are mixed together. Find the ratio in which the 2 types are mixed, so that the mixture costs ₹ 83 per kg.
(a) 19 : 13 (b) 13 : 19
(c) 2 : 3 (d) 3 : 2

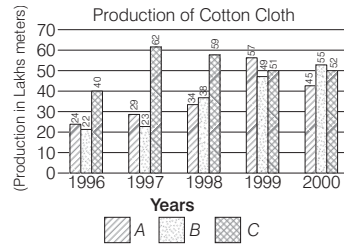
71. 6 men and 10 boys, as well as 2 men and 20 boys can finish the same work in 12 days. In how many days will 10 boys finish the same work?
(a) 24 (b) 26 (c) 16 (d) 30

72. During festivals, a banner on a shop displays, 'Pay for 3 and get 5'. The discount percentage offered is

(a) $166\frac{2}{3}\%$ (b) 60%
(c) 40% (d) $66\frac{2}{3}\%$

73. A rectangle of dimensions 10 cm and 5 cm is placed adjacent to another rectangle of the same size to draw an L shape figure. Find the perimeter of the shape so formed.
(a) 100 cm (b) 40 cm
(c) 50 cm (d) 60 cm

74. The following graph shows the production of cotton cloth (in lakh metres) by three companies A, B and C over five years.



In which years was the average production of the companies more than 38 lakh metres?

(a) 1997, 1998, 1999, 2000
(b) 1998, 1999, 2000
(c) 1997
(d) 1999

75. The simple interest accrued on a sum of ₹ 15000 at the end of 5 yr is ₹ 9750. If the rate of interest is 3% lesser, then the interest would be
(a) ₹ 7950 (b) ₹ 5850
(c) ₹ 3250 (d) ₹ 7500



General Awareness

76. Fundamental Duties of citizens were added to the Constitution of India in the year
(a) 1976 (b) 1983
(c) 1967 (d) 1951

77. The Union Budget, 2020-21, allocated ₹ crore for the Swachh Bharat Mission.
(a) 3,100 (b) 8,200
(c) 12,300 (d) 15,700

78. Burning of coal is a reaction.
(a) displacement
(b) decomposition
(c) combination
(d) double displacement

79. The Khalji Dynasty ruled over Delhi from
(a) 1290 to 1320 (b) 1206 to 1290
(c) 1320 to 1414 (d) 1414 to 1451

80. The human shoulder joint is an example of a joint.
(a) fixed
(b) pivotal
(c) hinge
(d) ball and socket

81. As per Section 2 of the Antiquities and Art Treasures Act, 1972, 'Antiquities' include 'any manuscript, record or other document which is of scientific, historical, literary or aesthetic value and which has been in existence for not less than years'.
(a) 125 (b) 150
(c) 50 (d) 75

82. The first printed edition of the Ramcharitmanas by Tulsidas was published from in 1810.

(a) Delhi
(b) Calcutta/Kolkata
(c) Madras/Chennai
(d) Bombay/Mumbai

83. Plants release water into the air by the process of
(a) photoperiodism
(b) transpiration
(c) photosynthesis
(d) tropism

84. Which of the following folk songs and dances was inscribed on the UNESCO Representative List of the Intangible Cultural Heritage of Humanity in 2010?
(a) Gair (b) Chari
(c) Kalbelia (d) Bhavai

85. Which of the following is the only Indian spinner to take six wickets in Women's One Day International Cricket?
(a) Poonam Yadav (b) Deepti Sharma
(c) Shafali Verma (d) Smriti Mandhana

86. Which of the following statements about the river Brahmaputra is incorrect?
(a) It rises in Tibet.
(b) It flows eastwards parallel to the Himalayas.
(c) Most of its course lies outside India.
(d) It enters India in Arunachal Pradesh where it is called the Dibang.

87. 'Nagara' temples typically have a style of architecture.
(a) South Indian (b) East Indian
(c) North Indian (d) mixed

88. Willy Wonka is a fictional character from the 'children's story book '.....'.
(a) Alice's Adventures in Wonderland
(b) Charlie and the Chocolate Factory
(c) Matilda
(d) Charlotte's Web

89. Bombay Stock Exchange is the stock exchange of Asia.
(a) first (b) second
(c) fourth (d) third

90. Which of the following options is incorrectly paired?
(a) Guavas—Telangana
(b) Apples—Himachal Pradesh
(c) Oranges—Nagpur
(d) Banana—Kerala

91. Mando is a form of folk songs from the state of
(a) Bihar (b) Manipur
(c) Goa (d) Rajasthan

92. Article of the Constitution of India deals with 'Proclamation of Emergency'.
(a) 235 (b) 352
(c) 325 (d) 253

93. Generally, a steep hill with an elevation of more than metres is classified as a mountain.
(a) 600 (b) 500 (c) 1000 (d) 800

94. Chola Inscriptions describe Tirunamattukkani as '.....'.
(a) land gifted to Brahmanas
(b) land of non-Brahmana peasant proprietors
(c) land donated to Jain institutions
(d) land gifted to temples

95. Who won a gold medal for weightlifting at the '6th Qatar International Cup' in Doha?
 (a) Manon Lorentz
 (b) Saikhom Mirabai Chanu
 (c) Anaïs Michel
 (d) Jeremy Lalrinnunga
96. Which part of the digestive system receives secretions from the liver and the pancreas?
 (a) Large intestines (b) Stomach
 (c) Gall bladder (d) Small intestine
97. Who among the following was a saint from Maharashtra?
 (a) Dadu Dayal (b) Chokhamela
 (c) Bhakhan (d) Sundar Das
98. Which of the following is a site of archaeological importance in Jammu and Kashmir?
 (a) Maski (b) Burzahom
 (c) Brahmagiri (d) Watkal
99. Under which of the following schemes has a new Institution been set up by the Government of India for development and refinancing activities relating to micro units?
 (a) Pradhan Mantri Mudra Yojana
 (b) Pradhan Mantri Ayushman Bharat Yojana
 (c) Pradhan Mantri Suraksha Bima Yojana
 (d) Pradhan Mantri Jan Dhan Yojana
100. According to Dalton's atomic theory, atoms combine in the ratio of small whole number to form
 (a) neutrons (b) molecules
 (c) protons (d) compounds

Answer Sheet

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1 (b) | 2 (c) | 3 (a) | 4 (a) | 5 (a) | 6 (c) | 7 (c) | 8 (d) | 9 (d) | 10 (d) |
| 11 (c) | 12 (a) | 13 (a) | 14 (c) | 15 (b) | 16 (a) | 17 (b) | 18 (d) | 19 (b) | 20 (b) |
| 21 (c) | 22 (a) | 23 (b) | 24 (c) | 25 (b) | 26 (b) | 27 (c) | 28 (b) | 29 (b) | 30 (c) |
| 31 (d) | 32 (d) | 33 (d) | 34 (a) | 35 (a) | 36 (c) | 37 (c) | 38 (c) | 39 (a) | 40 (d) |
| 41 (b) | 42 (d) | 43 (c) | 44 (d) | 45 (a) | 46 (b) | 47 (a) | 48 (a) | 49 (c) | 50 (d) |
| 51 (d) | 52 (d) | 53 (d) | 54 (b) | 55 (a) | 56 (d) | 57 (b) | 58 (d) | 59 (a) | 60 (c) |
| 61 (a) | 62 (b) | 63 (d) | 64 (c) | 65 (c) | 66 (c) | 67 (d) | 68 (b) | 69 (d) | 70 (c) |
| 71 (d) | 72 (c) | 73 (c) | 74 (b) | 75 (d) | 76 (a) | 77 (c) | 78 (c) | 79 (a) | 80 (d) |
| 81 (d) | 82 (b) | 83 (b) | 84 (c) | 85 (b) | 86 (d) | 87 (c) | 88 (b) | 89 (a) | 90 (a) |
| 91 (c) | 92 (b) | 93 (a) | 94 (d) | 95 (b) | 96 (d) | 97 (b) | 98 (b) | 99 (a) | 100 (d) |



Hints & Solutions

- (b) 'Fascinate' means attracting attention and 'captivate' also means the same. Hence, option (b) is the correct answer.
- (c) 'Prevelent' is an incorrectly spelt word. The correct spelling is 'prevalent'.
- (a) Preposition 'of' is suitable for the given blank.
- (a) Part (a) contains an error. Replace it with 'avoiding the puddles' to make the sentence error free.
- (a) 'Foment' means to instigate or stir up and undesirable course of action. 'Incite' also means the same. Hence, option (a) is the correct answer.
- (c) Part (c) has an error. Replace it with 'its best' to make the sentence error free.
- (c) 'Farsighted' means having a foresight. Hence, option (c) 'unwise' is its correct. antonym.
- (d) 'who knew' is the correct answer.
- (d) The idiom 'he who laughs last laughs loudest' means he who focuses on winning in the long term is successful.
- (d) 'Abandon' means to leave alone someone or something. Hence, option (d) 'support' is the correct answer.
- (c) 'Eager' is the suitable word for the given blank.
- (a) A group of wolves is called 'pack'.
- (a) Neuroscience is the scientific study of the nervous system and brain.
- (c) 'Pneumonia' is the incorrectly spelt word. Its correct spelling is 'pneumonia'.
- (b) No substitution required.
- (a) Part (a) has an error. Replace 'finds it' with 'found it' to make the sentence error free.
- (b) Replace the underlined part with 'one of the largest markets' to make the sentence grammatically correct.
- (d) No substitution required.
- (b) The idiom 'much ado about nothing' means making a big fuss over a small thing.
- (b) 'conniving' is the most suitable word for the given blank. A conniving person deceives others for his own advantage is the correct answer.
- (c) 'Spreads' is the correct answer.
- (a) 'Out' is the correct answer.
- (b) 'For long' is the correct answer.
- (c) 'Through' is the correct answer.
- (b) 'Has touched' is the correct answer.

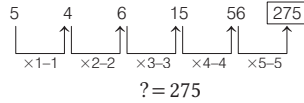
26. (b) As,

1 2 3 4 5 6 7 8 9 2 1 7 6 5 4 3 9 8
S T R I C T U R E \Rightarrow T S U T C I R E R

Similarly,

1 2 3 4 5 6 7 8 9 2 1 7 6 5 4 3 9 8
I N C U L C A T E \Rightarrow N I A C L U C E T

27. (c) The pattern of the series is as follows,



28. (b) From option (b) $12 \div 4 \times 3 - 6 = 10$

After interchanging $-$ and \div , we get

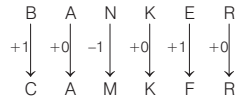
$$12 - 4 \times 3 \div 6 = 10$$

$$\Rightarrow 12 - 4 \times \frac{1}{2} = 10$$

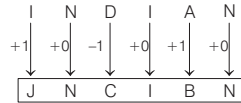
$$\Rightarrow 12 - 2 = 10$$

$$\Rightarrow 10 = 10$$

29. (b) As,



Similarly,



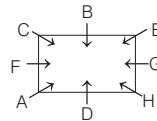
30. (c) As, (10 : 24)

$$\begin{array}{c} \uparrow \quad \uparrow \\ 3^2 + 1 \quad 5^2 - 1 \end{array}$$

Similarly, (50 : 80)

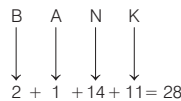
$$\begin{array}{c} \uparrow \quad \uparrow \\ 7^2 + 1 \quad 9^2 - 1 \end{array}$$

31. (d) According to the question, the arrangement is as follows.



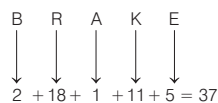
Hence, B is sitting between C and E.

32. (d) As,



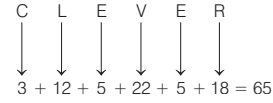
$$\Rightarrow 28 + 4 \text{ (number of letters in the word BANK)} = 32$$

and



$$\Rightarrow 37 + 5 \text{ (number of letters in the word BRAKE)} = 42$$

Similarly,



$$\Rightarrow 65 + 6 \text{ (number of letters in the word CLEVER)} = 71$$

33. (d) According to question the arrangement is as follows,

| Day | Doctor |
|-----------|--------|
| Monday | P |
| Tuesday | S |
| Wednesday | U |
| Thursday | Q |
| Friday | R |
| Saturday | T |

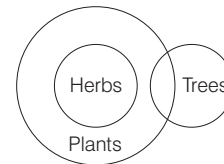
So, doctor P and S visited on the first two days.

34. (a) The figure given in question is embedded in the figure given in option (a).



35. (a) As, 'Athlete' run as 'tracks', similarly 'student' study in 'class room'.

36. (c) According to the statement,

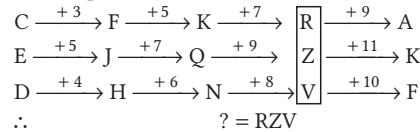


Conclusions I. (✓) II. (✓)

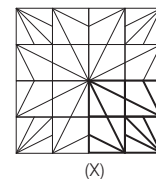
Hence, Both conclusions follow.

37. (c) As, 'Television' provides 'Entertainment'. Similarly 'woollens' provide 'warmth'.

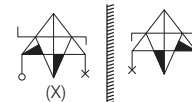
38. (c) The pattern of the series is as follows



39. (a) The figure given in option (a) will complete the figure pattern.



40. (d) The figure given in option (d) is the correct mirror image of the question figure.



41. (b) According to the question, the arrangement is as follows,



Hence, Vinita sits at the other end of the row.

42. (d) As in (16, 30, 36)

$$\Rightarrow (16 + 30) - \frac{30}{3} = 46 - 10 = 36$$

Similarly in (9, 24, 25)

$$\Rightarrow (9 + 24) - \frac{24}{3} = 33 - 8 = 25$$

43. (c) Given expression,

$$12 \div 2 \times 6 + 4 - 2 = 13$$

From option (c), an interchanging + and \div

$$12 + 2 \times 6 \div 4 - 2 = 13$$

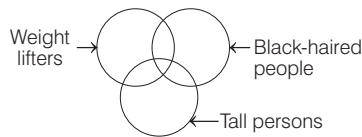
$$\Rightarrow 12 + 2 \times \frac{6}{4} - 2 = 13$$

$$\Rightarrow 12 + 3 - 2 = 13$$

$$\Rightarrow 13 = 13$$

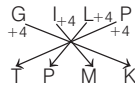
44. (d) The paper when unfolded will look like the figure given in option (d).

45. (a) According to the question,

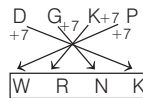


Some, black-haired people can be tall persons and weight lifters.

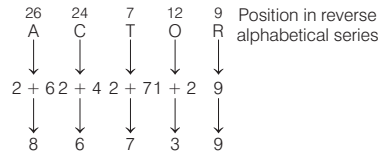
46. (b) As,



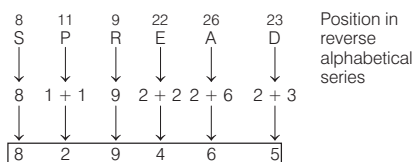
Similarly,



47. (a) As,

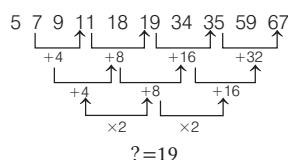


Similarly,



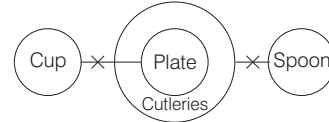
SPREAD \Rightarrow 829465

48. (a) The pattern of the series is as follows.



\therefore

49. (c) According to the question,



Conclusions I. \checkmark II. \times III. \checkmark

Hence, only Conclusions I and III follow.

50. (d) Figure given in option (d) will complete the given figure series.

51. (d) $16 + [0.2 \div 0.004 + 5.2 \text{ of } 2 \div (0.7 \times 2 + 0.84 \div 0.7)]$

$$= 16 + [50 + 5.2 \times 2 \div (1.4 + 1.2)]$$

$$= 16 + [50 + 5.2 \times 2 \div 2.6]$$

$$= 16 + \left[50 + \frac{5.2 \times 2}{2.6} \right]$$

$$= 16 + [50 + 4] \quad [\text{Applying BODMAS Rule}]$$

$$= 16 + 54 = 70$$

52. (d) $108 \div 18 \times 3 - 64 \times 2 \div 32 + 80 \div 5 \text{ of } 4$

$$= \frac{108}{18} \times 3 - 64 \times \frac{2}{32} + 80 \div 20$$

$$= 6 \times 3 - 64 \times \frac{1}{16} + 4 \quad [\text{By BODMAS Rule}]$$

$$= 18 - 4 + 4 = 18$$

53. (d) Length of room (l) = 15 ft

Width of room (b) = 12 ft

height of room (h) = 10 ft

Area of four walls excluding areas of door and two windows and including area of ceiling = Area of four walls + Area of ceiling - Area of doors - 2 \times area of windows

$$= 2(l + b) \times h + lb - 8 \times 3.5 - 2 \times 5 \times 3$$

$$= 2(15 + 12) \times 10 + 12 \times 15 - 28 - 30$$

$$= 540 + 180 - 58 = 662$$

Total cost of painting = $50 \times 662 = ₹ 33100$

54. (b) Difference in marks;

For English = $83 - 75 = 8$

For Maths = $95 - 83 = 12$

For Hindi = $72 - 70 = 2$

For Science = $78 - 69 = 9$

For Social Science = $69 - 65 = 4$

\therefore The difference marks is the highest in Maths.

55. (a) SP of article = ₹ 8000

discount (x) = 10%

Tax (y) = 7.5%

Cost of delivery = ₹ 200

Amount paid

$$= 8000 \times \frac{90}{100} \times \frac{107.5}{100} + 200$$

$$= 7740 + 200 = ₹ 7940$$

56. (d) Radius of top of frustum (R) = 20 cm

Radius of bottom of frustum (r) = 10 cm

height of frustum (h) = 24 cm

$$\text{Capacity of bucket} = \frac{\pi h}{3} (R^2 + r^2 + Rr)$$

$$\begin{aligned}
 &= \frac{22}{7} \times \frac{24}{3} [(20)^2 + (10)^2 + 20 \times 10] \\
 &= \frac{22 \times 8}{7} [400 + 100 + 200] \\
 &= \frac{22 \times 8}{7} \times 700 \\
 &= 22 \times 8 \times 100 = 17600 \text{ cm}^3
 \end{aligned}$$

57. (b) Total computers sold by dealer A on Monday, Tuesday and Friday = 75 + 80 + 78 = 233

Total computers sold by dealer B on Wednesday, Thursday and Saturday = 60 + 80 + 75 = 215

Required difference = 233 - 215 = 18

58. (d) Let $x = 5k$ and $y = 7k$

$$\begin{aligned}
 \text{Then, } \frac{6x - y}{5x + 3y} &= \frac{6(5k) - 7k}{5(5k) + 3(7k)} \\
 &= \frac{30k - 7k}{25k + 21k} \\
 &= \frac{23k}{46k} = \frac{1}{2} = 1 : 2
 \end{aligned}$$

59. (a) Marked price MP of article = ₹ 2500

Discount = 10%

$$SP = \left(\frac{100 - 10}{100} \right) \times 2500 = ₹ 2250$$

$$\begin{aligned}
 CP &= \frac{SP}{(100 + \text{profit}\%)} \times 100 \\
 &= \frac{2250}{(100 + 25)} \times 100 = \frac{2250}{125} \times 100 \\
 &= ₹ 1800
 \end{aligned}$$

Profit = SP - CP

$$= ₹ (2250 - 1800) = ₹ 450$$

60. (c) Distance covered at the speed of 46 km/h

$$= 56 \times \frac{75}{60} = 70 \text{ km}$$

Distance covered at the speed of 60 km/h = 90 km

$$\text{Time taken} = \frac{90}{60} = 1.5 \text{ h}$$

$$\begin{aligned}
 \text{Remaining distance} &= 260 - (90 + 70) \\
 &= 260 - 160 = 100 \text{ km}
 \end{aligned}$$

$$\begin{aligned}
 \text{Remaining time} &= 4 - \left(1.5 + \frac{75}{60} \right) \\
 &= 74 - (15 + 1.25) \\
 &= 4 - 2.75 = 1.25 \text{ h}
 \end{aligned}$$

$$\text{Required speed to cover remaining distance} = \frac{100}{1.25} = 80 \text{ km/h}$$

61. (a) Man will complete total work in

$$= \frac{6}{\left(\frac{3}{7} \right)} = 14 \text{ days}$$

So, he will require = 14 - 6

= 8 more days to complete the work.

62. (b) LCM (5, 6, 8) = 120

Hence, the smallest number such that, when it is divided by 5, 6 and 8 it leaves a remainder 3 = 120 + 3 = 123

63. (d) We know that,

Sum of square of first n natural numbers

$$\begin{aligned}
 &= \frac{n(n+1)(2n+1)}{6} \\
 n &= \frac{7(7+1)(2 \times 7+1)}{6} \quad [\because n=7] \\
 &= \frac{7 \times 8 \times 15}{6} = 140
 \end{aligned}$$

$$\text{Required average} = \frac{140}{7} = 20$$

64. (c) Let third number be x .

\therefore Second number = $2x$

and first number = $3 \times 2x = 6x$.

According to the question,

$$\begin{aligned}
 \frac{6x + 2x + x}{3} &= 45 \\
 \Rightarrow 9x &= 45 \times 3 \\
 \Rightarrow x &= \frac{45 \times 3}{9} = 15
 \end{aligned}$$

\therefore Required difference = $6x - 2x = 4x = 4 \times 15 = 60$

65. (c) $x = 8 \text{ km/h}$

$$y = 24 \text{ km/h}$$

Since, the distance covered in both the journeys is same,

$$\begin{aligned}
 \text{Hence, Average speed} &= \frac{2xy}{x+y} = \frac{2 \times 8 \times 24}{8+24} \\
 &= \frac{16 \times 24}{32} = 12 \text{ km/h}
 \end{aligned}$$

66. (c) Let the principal be ₹ P .

$$\text{Then, amount} = ₹ \left(P + \frac{21}{100} P \right) = ₹ \frac{121}{100} P$$

According to the question,

$$\frac{121}{100} P = P \left(1 + \frac{r}{100} \right)^2$$

$[\because r = \text{Rate of interest per annum}]$

$$\frac{121}{100} = \left(1 + \frac{r}{100} \right)^2$$

$$\frac{11}{10} = 1 + \frac{r}{100}$$

$$\frac{r}{100} = \frac{1}{10}$$

$$\Rightarrow r = 10\% \text{ per annum}$$

67. (d) CP of pens = $(20 \times 190) = ₹ 3800$

Total CP including expenses = ₹ $(3800 + 200) = ₹ 4000$

$$\begin{aligned}
 \text{SP of all the pens} &= ₹ (20 \times 12 \times 22) \quad [\because 1 \text{ dozen} = 12 \text{ pieces}] \\
 &= ₹ 5280
 \end{aligned}$$

Therefore, profit = SP - CP

$$= ₹ (5280 - 4000) = ₹ 1280$$

$$\text{Profit percentage} = \frac{\text{Profit}}{\text{CP}} \times 100 = \frac{1280}{4000} \times 100 = 32\%$$

68. (b) First four prime numbers = 2, 3, 5 and 7

Average of first four prime numbers

$$= \frac{2+3+5+7}{4} = \frac{17}{4}$$

First four composite numbers = 4, 6, 8, 9

Average of first four composite numbers

$$= \frac{4 + 6 + 8 + 9}{4} = \frac{27}{4}$$

$$\text{Required ratio} = \frac{\left(\frac{17}{4}\right)}{\left(\frac{27}{4}\right)} = \frac{17}{27} = 17 : 27$$

69. (d) Total volume of milk = 30 L

quantity of milk replaced = 3 L

Number of times the process is repeated (n) = 3

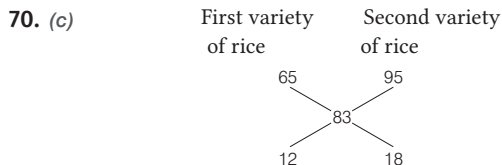
Final volume of milk in the mixture

$$= 30 \left(1 - \frac{3}{30}\right)^3 = 30 \left(\frac{9}{10}\right)^3$$

$$= 30 \times \frac{9 \times 9 \times 9}{10 \times 10 \times 10} = \frac{21870}{1000} = 21.870 \text{ L}$$

Final volume of water = 8.13 L

$$\text{Required ratio} = \frac{8.13}{21.87} = \frac{271}{729} = 271 : 729$$



Required ratio = 12 : 18 = 2 : 3

71. (d) Let the work of 1 man and 1 boy per day is M and B respectively,

According to the question,

$$12(6M + 10B) = 12(2M + 20B)$$

$$\Rightarrow 6M + 10B = 2M + 20B$$

$$\Rightarrow 2M = 5B$$

Therefore,

$$\text{Total work} = 12 \times (2M + 20B)$$

$$= 12 \times (5B + 20B) = 12 \times 25B$$

Hence, 10 boys will complete the work in

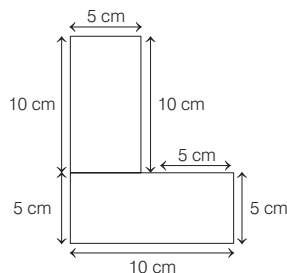
$$= \frac{12 \times 25B}{10B} = 30 \text{ days}$$

72. (c) Required discount percentage

$$= \frac{5 - 3}{5} \times 100 = \frac{2}{5} \times 100 = 40\%$$

73. (c) The perimeter of the figure is

$$= 4 \times 5 + 3 \times 10 = 20 + 30 = 50 \text{ cm}$$



74. (b) Average production of cotton cloth

$$\text{In 1996} = \frac{24 + 22 + 40}{3} = \frac{86}{3} = 28.66 \text{ lakh meter}$$

$$\text{In 1997} = \frac{29 + 23 + 62}{3} = \frac{114}{3} = 38 \text{ lakh meter}$$

$$\text{In 1998} = \frac{34 + 38 + 59}{3} = \frac{131}{3} = 43.66 \text{ lakh meter}$$

$$\text{In 1999} = \frac{57 + 49 + 51}{3} = \frac{157}{3} = 52.33 \text{ lakh meter}$$

$$\text{In 2000} = \frac{45 + 55 + 52}{3} = \frac{152}{3} = 50.66 \text{ lakh meter}$$

Hence in three years i.e. 1998, 1999 and 2000, the average production is more than 38 lakh metres.

75. (d) Let the rate of interest is r per cent per annum

We know that,

$$SI = \frac{P \times R \times T}{100}$$

$$9750 = \frac{15000 \times r \times 5}{100}$$

$$r = \frac{9750 \times 100}{15000 \times 5} = 13\%$$

New rate of interest = 13 - 3 = 10%

$$\text{New simple interest} = \frac{15000 \times 10 \times 5}{100} = ₹ 7500$$

76. (a) The Fundamental Duties of citizens were added to the Constitution by the 42nd Amendment in 1976, upon the recommendations of the Swaran Singh Committee that was constituted by the Government. The Fundamental Duties are dealt with Article 51A under Part-IV A of the Indian Constitution.

77. (c) Union Finance Minister allocated

₹ 12300 crore for 2020-21 Swachh Bharat Abhiyan, the nation-wide cleanliness campaign that started in 2014 to end open defecation.

78. (c) Coal burns in the air to form carbon dioxide gas.

Combustion reactions Burning of coal and formation of water are examples of combination reaction. In simple expression, we can state that when two or more substances react to produce a single product, the reactions are termed combination reaction.

79. (a) The Khalji dynasty was the second ruling family of the Delhi sultanate, a Muslim kingdom in North India. The kingdom was led by a ruler called a sultan from its capital at Delhi. The Khalji dynasty ruled from 1290 to 1320.

80. (d) **Shoulder Joint** It is another example of ball and socket joint, also known as glenohumeral joint. It is a ball and socket joint between the scapula and the humerus bone. The shoulder joint is formed by the articulation of the humerus bone head fitted into the glenoid cavity of the scapula.

81. (d) According to Section 2 of the Antiquities and Art Treasures Act, 1972, antiquities includes 'any manuscript, record or other document which is of scientific historical, literary or aesthetic value and which has been in existence for not less than seventy-five years.

82. (b) It was Ramcharitmanas of Tulsidas, a sixteenth-century text, came out from Calcutta in 1810 which was first edition of Indian religious text published in vernacular.
83. (b) Transpiration is a process that involves loss of water vapour through the stomata of plants. The loss of water vapour from the plant cools the plant down when the weather is very hot, and water from the stem and roots moves upwards or is 'pulled' into the leaves.
84. (c) Kalbelia dance and folk songs was inscribed on the UNESCO representative list of the intangible cultural heritage of humanity in 2010. Kalbelia dance is a folk dance of Rajasthan state of India. It is well known by other names like 'Sapera Dance' or 'Snake Charmer Dance'. Kalbelia dance is particularly performed by a Rajasthani tribe called 'Kalbelia'.
85. (b) A left-hand batter and a right-arm off- spinner, Deepti Sharma, made her ODI debut in November 2014 when India faced South Africa in Bengaluru. She played her first T20 in Sydney in January 2016. In 2016, Sharma recorded her best ODI bowling figures as she picked up six wickets against Sri Lanka in Ranchi. Sharma has the highest ODI score of 188 and it remains the highest individual score for an India woman cricketer.
86. (d) Brahmaputra River originates from the Kailash ranges of Himalayas at an elevation of 5300 M. After flowing through Tibet it enters India through Arunachal Pradesh where it is called the Dibang River and flows through Assam where it is called Brahmaputra and Bangladesh before it joins Bay of Bengal. The catchment area of Brahmaputra in Tibet is 293000 Sq.
87. (c) Nagara style of temple architecture that became popular in Northern India is known as Nagara. In North India it is common for an entire temple to be built on a stone platform with steps leading up to it. Another unique characteristic is that it does not usually have elaborate boundary walls or gateways.
88. (b) Willy Wonka & the Chocolate Factory is a 1971 American musical fantasy film directed by Mel Stuart and starring Gene Wilder as Willy Wonka. It is an adaptation of the 1964 novel Charlie and the Chocolate Factory by Roald Dahl. The film was released by Paramount Pictures on 30th June, 1971.
89. (a) The Bombay Stock Exchange (BSE) is the first and largest securities market in India and was established in 1875 as the Native Share and Stock Brokers' Association.
90. (a) Chief states producing guava are: Bihar, Andhra Pradesh, Uttar Pradesh, Maharashtra, Gujarat, Karnataka, Orissa, Tamil Nadu and Chhattisgarh. Uttar Pradesh is the most important state for guava production. Allahabad is famous for producing the best quality guava in India and the World.
91. (c) Mando or Manddo (Konkani) is a musical form that evolved during the 19th and 20th centuries among the Goan Catholics. It represents a meeting point of local Goan (Goa was part of Portugal at the time) and Western musical traditions.
92. (b) Article-352 of Indian Constitution deals with 'Proclamation of Emergency'. If the President is satisfied that a grave emergency exists whereby the security of India or of any part of the territory thereof is threatened, whether by war or external aggression or armed rebellion, he may, by proclamation, made a declaration to that effect in respect of the whole of India or of such part of the territory.
93. (a) Generally, a steep hill with an elevation of more than 600 metres is termed as a mountain. Within the Earth, a continuous movement is taking place. The internal process leads to the upliftment and sinking of the Earth's surface at several places.
94. (d) **Devadana, Tirunamattukkani** Land gifted to temples. **Pallichchhandam** Land donated to Jaina institutions.
95. (b) Former world champion weightlifter Saikhom Mirabai Chanu notched up the women's 49 kg category gold medal to open India's account at the '6th Qatar International Cup' in Doha.
96. (d) The small intestine is the most important part of the digestive system has three parts such as the duodenum, jejunum and the ileum. The duodenum is a short structure which is continuous with the stomach, shaped like a "C" surrounding the head of the pancreas. Only the duodenum receives the secretions in the small intestine. This receives the gastric chyme from the stomach, digestive juices and enzymes from the pancreas and bile from the gall bladder.
97. (b) Chokhamela was a saint in Maharashtra, India in the 14th century. He belonged to the Mahar caste, present day, it's considered one of the untouchable castes in India. He was born at Mehuna Raja, a village in Deulgaon Raja Taluka of Buldhana district.
98. (b) Burzahom was the first Neolithic site to be discovered in Kashmir.
Burzahom is the most famous archaeological site in Kashmir. Neolithic [New Stone Age] Phase I 3000 B.C. The earliest Neolithic homes at Burzahom were pits dug below ground level using stone tools.
99. (a) It was launched by the government in 2015 for providing loans up to ₹ 10 lakh to the non-corporate, non-farm small/micro-enterprises. **Funding Provision**
MUDRA, which stands for Micro Units Development & Refinance Agency Ltd., is a financial institution set up by the Government. It provides funding to the non-corporate small business sector through various last-mile financial institutions like Banks, Non-Banking Financial Companies (NBFCs) and Micro Finance Institutions (MFIs). MUDRA does not lend directly to micro-entrepreneurs/individuals.
100. (d) According to Dalton theory, atoms of different elements combine in simple whole number ratios to form compounds.

SSC Multi-Tasking Exam

Solved Paper

06 October, 2021
III Shift

Instructions

- ✓ This paper contains 100 questions.
- ✓ This paper has 4 parts, Part I General English, Part II General Intelligence & Reasoning, Part III Numerical Ability, Part IV General Awareness
- ✓ Each question carries 1 mark.



General English

1. Select the most appropriate meaning of the given idiom.
Over the moon
(a) Extremely happy
(b) Highly imaginative
(c) Very ambitious
(d) Very unrealistic
2. Select the incorrectly spelt word.
(a) Decorative
(b) Extravagant
(c) Elaborate
(d) Ornamental
3. Select the incorrectly spelt word.
(a) Persuasion (b) Absense
(c) Erroneous (d) Scenic
4. Select the most appropriate one-word substitution for the given group of words.
A person who remains unmoved and unaffected by other people's opinions, suggestions.
(a) Irresponsible (b) Unreliable
(c) Imprudent (d) Impervious
5. Select the most appropriate synonym of the given word.
Fluorescent
(a) elaborate
(b) flowery
(c) perfumed
(d) glowing
6. Select the most appropriate meaning of the given idiom.
Copycat
(a) One who loves cats and dogs
(b) One who imitates another closely
(c) One who copies all drawings of cats
(d) One who doesn't like cats as pets
7. Identify the segment in the sentence which contains a grammatical error.
Vijaya saw the play in a auditorium near her house.
(a) in a auditorium
(b) near her house
(c) the play
(d) Vijaya saw
8. Select the most appropriate one-word substitution for the given group of words.
A boat or ship for conveying passengers and goods, especially over a relatively short distance and as a regular service.
(a) Dinghy (b) Ferry
(c) Freighter (d) Submarine
9. Select the most appropriate antonym of the given word.
Flimsy
(a) Strong (b) Weak
(c) Tiny (d) Clumsy
10. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, then select 'No substitution required'.
I'm certain go to start studying from today.
(a) certain going
(b) certainly go
(c) certainly going
(d) No substitution required
11. Select the most appropriate option to fill in the blank.
They looked at each other for a moment without speaking and then fell into a
(a) conversation (b) confidence
(c) conversion (d) conviction
12. Identify the segment in the sentence which contains a grammatical error.
Obi wanted to continue on his idea of building a modern school.
(a) building a modern school
(b) Obi wanted
(c) his idea of
(d) to continue on
13. Select the most appropriate synonym of the given word.
Graceful
(a) Elegant (b) Dangerous
(c) Pleasant (d) Friendly

14. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
Very soon, the people find out as the snake was harmless and the boys began to tease it mercilessly.
(a) found out that
(b) finds out but
(c) No substitution required
(d) finding out so
15. Select the most appropriate option to fill in the blank.
..... entering the hall, please turn off your mobile phones.
(a) Previous (b) Earlier
(c) Ahead (d) Before
16. Select the most appropriate antonym of the given word.
Defense
(a) Protection (b) Offence
(c) Security (d) Guard
17. Identify the segment in the sentence which contains a grammatical error.
Slowly the dog, Spot, went towards it and pounced up the rat.
(a) up the rat
(b) and pounced

(c) went towards it
(d) Slowly the dog, Spot

18. Select the most appropriate option to fill in the blank.
Half-way the two towns there was a mountain which had to be crossed.
(a) between (b) across
(c) around (d) within
19. Select the most appropriate option to substitute the underlined segment in the given sentence. If there is no need to substitute it, select 'No substitution required'.
There were a dozen eggs in the basket, but now there will be only six.
(a) there been
(b) there are
(c) No substitution required
(d) there is
20. Select the most appropriate option to fill in the blank.
With your new credit card, you can up to ₹ 20,000 in a day.
(a) withdraws (b) withdrew
(c) withdraw (d) withdrawn

Directions (Q.Nos. 21-25) In the following passage, some words have been deleted. Fill in the blanks with the help of the alternatives given. Select the most appropriate option for each blank.

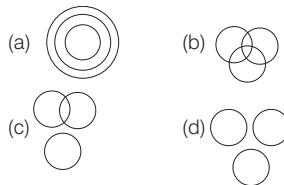
Long ago in China, at a time when girls (1) expected to stay at home and (2) household work while the boys (3) to school, a girl named Zhu had a desire (4) study. Her family was wealthy and Zhu was (5) so she too could have had her wish, but her father did not want to go against tradition.

21. Select the most appropriate option to fill in the blank no. 1.
(a) will (b) be
(c) were (d) are
22. Select the most appropriate option to fill in the blank no. 2.
(a) make (b) teach
(c) produce (d) do
23. Select the most appropriate option to fill in the blank no. 3.
(a) going (b) goes
(c) go (d) went
24. Select the most appropriate option to fill in the blank no. 4.
(a) for (b) at
(c) to (d) in
25. Select the most appropriate option to fill in the blank no. 5.
(a) treated
(b) pampered
(c) trained
(d) prepared

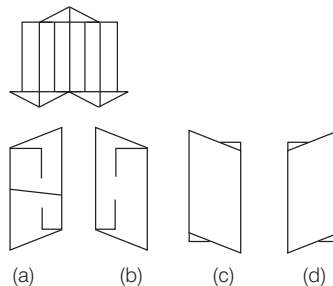


General Intelligence & Reasoning

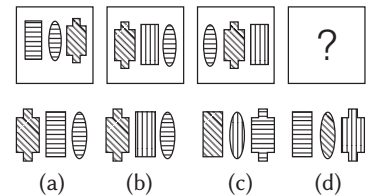
26. Which two digits can be interchanged, so as to balance the given equation?
 $76 + 108 \div 9 - 11 \times 2 = 18$
(a) 2 and 7 (b) 8 and 7
(c) 1 and 7 (d) 6 and 2
27. Select the correct sequence of mathematical signs to sequentially replace the A, B, C, D and E, so as to balance the given equation.
 $38 \text{ A } 56 \text{ B } 8 \text{ C } 15 \text{ D } (36 \text{ E } 28) = 151$
(a) $- \times + \div -$
(b) $- \div + \times -$
(c) $+ + \times - +$
(d) $\times - \div + -$
28. Select the Venn diagram that best illustrates the relationship between the following classes.
Village people, Educated people, Intelligent people



29. Identify the option figure which is embedded in the following figure (rotation is not allowed).



30. Select the option figure that will replace the question mark (?) in the following figure series.

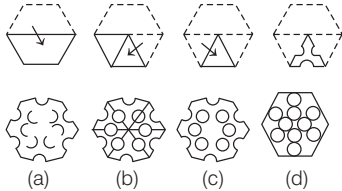


31. 'Young' is related to 'Age' in the same way as 'Short' is related to
(a) Rain (b) Period
(c) Small (d) Train
32. In a certain code language, 12345 is coded as 182764125. How will 65428 be coded in that language?
(a) 21512463511 (b) 149016025
(c) 216125747512 (d) 216125648512

33. If in a coding system, HOUSE is coded as 340 and FOETUS is coded as 516, then how will CONSENT be coded in the same coding system?

(a) 630 (b) 542
(c) 455 (d) 360

34. A paper is folded and cut as shown in the following figures. How will it appear, when unfolded?



35. Five persons, V, W, X, Y and Z are sitting along a round table facing the centre. V is sitting 2nd to the right of W, who is 2nd to the right of X. If Y is sitting adjacent to X, then who is to the immediate left of V?
- (a) Z (b) Y
(c) W (d) X

36. Which number will replace the question mark (?) in the following number series?

2, 12, 30, 56, 90, 132, ?
(a) 180 (b) 184
(c) 186 (d) 182

37. Select the correct mirror image of the given combination, when the mirror is placed to the right side of the it.

U&A?FS

(a) Ɔ ɹ ʇ ʌ ʇ ʌ ʇ ʌ ʇ ʌ ʇ ʌ ʇ
(b) Ɔ ɹ ʇ ʌ ʇ ʌ ʇ ʌ ʇ ʌ ʇ ʌ ʇ
(c) Ɔ ɹ ʇ ʌ ʇ ʌ ʇ ʌ ʇ ʌ ʇ ʌ ʇ
(d) SF?A & U

38. Which letter-cluster will replace the question mark (?) in the following letter-cluster series?

GJM, QTW, ADG, ?
(a) KOR (b) JNR
(c) KNQ (d) JMP

39. Two statements are given, followed by two conclusions numbered I and II. Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

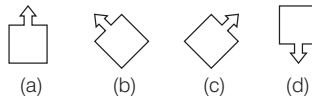
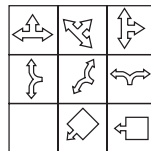
Statements

All Eagles are Kites.
All Kites are Sparrows.

Conclusions

- I. All Sparrows are Eagles.
II. All Eagles are Sparrows.
(a) Both Conclusions I and II follow
(b) Neither Conclusion I nor II follows
(c) Only Conclusion I follows
(d) Only Conclusion II follows

40. Identify the option figure that, when placed in the blank space completes the pattern in the given question figure.



41. Select the option that is related to the third letter-cluster in the same way as the second letter-cluster is related to the first letter-cluster.

ORGANZA : LJTAMBZ ::
TEMPLATE : ?

(a) FFNQMZHV (b) GFMQLZGV
(c) GWNLOAGW (d) QBJMIXQB

42. Select the option word that is related to the third word in the same way as the second word is related to the first word.

Kohima : Nagaland :: Shillong : ?
(a) Odisha (b) Meghalaya
(c) Assam (d) Sikkim

43. Study the given pattern carefully and select the number that can replace the question mark (?) in it.

9 7 79
7 8 71
6 9 ?

(a) 69 (b) 66 (c) 74 (d) 71

44. In a certain code language, if HARIDWAR is written as FCPKBYYT, then how will BIKANER be written in the same code language?

(a) DKMCPGT
(b) KIBNARE
(c) ZKICLGP
(d) AGIALCP

45. If in a coding system, ORATORY is coded as 116 and RAVENOUS is coded as 119, then how will IRIDODOLOGY be coded in the same coding system?

(a) 114 (b) 110
(c) 118 (d) 116

46. Six special lectures are to be organised on Banking system, Quality circles, Work motivation, Decision making, Current affairs, and Personality development. Lectures are scheduled to be held, one lecture on each day from Monday to Sunday, as per the details given below.

- (a) Work motivation should be organised immediately after Decision making.
(b) Quality circle should be organised on Wednesday and should not be followed by Personality development.
(c) Decision making should be organised on Friday and there should be a gap of two days between Banking system and Current affairs.
(d) On one day, other than Saturday, there should be no lecture. Current affairs should be on previous day of holiday.

Which lecture will be organised on the first day (Monday)?

- (a) Banking system
(b) Current affairs
(c) Working motivation
(d) Personality development

47. Two statements are given, followed by three conclusions numbered I, II and III.

Assuming the statements to be true, even if they seem to be at variance with commonly known facts, decide which of the conclusions logically follow(s) from the statements.

Statements

All Toms are Jerrys.
Some Jerrys are Mickeys.

Conclusions

- I. Some Toms are Mickeys.
II. Some Toms are not Mickeys.
III. Some Jerrys are Toms.
(a) Both Conclusions II and III follow
(b) Only Conclusion II follows
(c) Only Conclusion I follows
(d) Only Conclusion III follows

48. Which number will replace the question mark (?) in the following number series?

86, 74, 84, 76, ?, 78, 80

- (a) 80 (b) 82
(c) 78 (d) 84

49. Eight students were sitting on two benches, L, M, N, O on the front bench and P, Q, R, S on the next

one, but not in the same sequence. Q was sitting exactly behind M, who was sitting to the extreme right. O and P and L and S were sitting adjacent to each other in diagonally cross positions, S being on the extreme left. What was the sitting position of N?

- (a) Diagonal to R
(b) Exactly in front of R

- (c) Right of O
(d) Left of L

50. In a certain code language, if FINALIZE is written as JKRCPKDG, then how will INSIGNIA be written in the same code language?

- (a) MRWMKRMG
(b) MPTMIPMG
(c) KRWKKRKC
(d) GRWGKRGY



Numerical Ability

51. Let x be the least number between 70000 and 75000 which on being divided by 225, 250 and 275 leaves a remainder of 61 in each case. The sum of the digits of x is

- (a) 12 (b) 29
(c) 16 (d) 21

52. By selling a fan for ₹ 2604 there is a loss of 7%. If it is sold for ₹ 3094, then the profit percentage is

- (a) 10% (b) 12%
(c) 9.5% (d) 10.5%

53. What is the mean of the range and median of the given data?

11, 16, 14, 7, 11, 23, 10, 30, 20, 33, 19, 12, 17, 14

- (a) 20.5 (b) 25.5
(c) 24 (d) 19

54. A person travels a certain distance at $4\frac{1}{6}$ m/s and return to the starting point at 12 km/h. His average speed (in km/h) is

- (a) $12\frac{1}{2}$ (b) $13\frac{1}{3}$ (c) $13\frac{1}{2}$ (d) $10\frac{1}{3}$

55. The value of $\frac{3}{7} + \frac{1}{14} \times 2\frac{4}{5} - \left(\frac{1}{4} \div \frac{2}{7} \text{ of } 2\frac{1}{3}\right)$

$\times \left(5\frac{1}{5} \div 3\frac{1}{2} \times \frac{5}{13}\right)$ is

- (a) $\frac{22}{35}$ (b) $\frac{3}{14}$ (c) $\frac{14}{21}$ (d) $\frac{29}{70}$

56. The ratio of A and B is 2 : 3, and B is 8 more than A. If a certain number k is added to each of A and B, then the ratio becomes 7 : 9. The value of k is

- (a) 10 (b) 8
(c) 12 (d) 16

57. The ratios of acid and water in the solutions in vessels A and B are 4 : 5 and 5 : 1, respectively. A new solution is obtained by mixing 5 L and 4 L of the solution from A and B, respectively. What is the ratio of acid and water in the new solution?

- (a) 9 : 4 (b) 50 : 31
(c) 25 : 16 (d) 15 : 8

58. A shopkeeper marks an article 24% above its cost price and allows a 15% discount on the marked price. If he earns a profit of ₹ 27 by selling the article, then the selling price of the article is

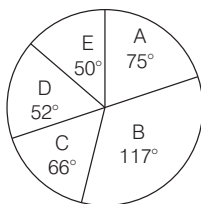
- (a) ₹ 508 (b) ₹ 522
(c) ₹ 517 (d) ₹ 527

59. The value of $3\frac{1}{4} - \frac{4}{5} \text{ of } \frac{5}{6}$
 $4\frac{1}{3} \div \frac{1}{5} - \left(\frac{3}{10} + 21\frac{1}{5}\right)$
 $- \left(2\frac{2}{3} \text{ of } 1\frac{1}{2}\right)$ is

- (a) $13\frac{1}{2}$ (b) $11\frac{1}{2}$ (c) $9\frac{1}{2}$ (d) $12\frac{1}{2}$

Direction (Q. Nos. 60) Study the given pie-chart and answer the questions that follow.

Break-up of the students studying in schools A, B, C, D and E managed by a society in 2019.



Total number of students in five school
= 5400

60. The ratio of the number of boys and girls in school B is 6 : 7 and 40% of the students in school D are boys. The total number of girls in schools B and D is

- (a) 1503 (b) 1410 (c) 1508 (d) 1413

61. A sum of ₹ 3780 is divided between A, B and C such that if their shares are decreased by ₹ 130, ₹ 150 and ₹ 200, respectively, then they are in the ratio of 5 : 2 : 4. What is the original share of C?

- (a) ₹ 1350 (b) ₹ 1330
(c) ₹ 1400 (d) ₹ 1430

62. The average of the 2-digit numbers 49, $6x$, x_4 and 70 is 65. What is the average of $(x + 8)$ and $(x + 12)$?

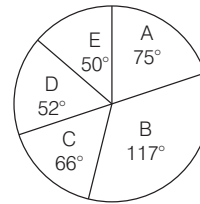
- (a) 16 (b) 17 (c) 19 (d) 18

63. A sum of ₹ 5760 amounts to ₹ 7200 in 4 yr and to ₹ x in 12 yr at a certain rate per cent per annum, when the interest is compounded yearly in both the cases. What is the value of x ?

- (a) 11500 (b) 11250
(c) 12500 (d) 12250

Direction (Q. Nos. 64-65) Study the given pie-chart and answer the question that follow.

Break-up of the students studying in schools A, B, C, D and E managed by a society in 2019.



Total number of students in five school
= 5400

64. The difference between the number of students in school B and the total number of students in schools D and E is p . The value of p lies between
(a) 210 and 220 (b) 220 and 230
(c) 200 and 210 (d) 230 and 240
65. The average number of students in schools A, B and C is what percentage more than the number of students in school E?
(a) 65% (b) 60% (c) 72% (d) 70%
66. The amount obtained by investing a certain sum at r percent per annum for 3 yr at simple interest is equal to the simple interest on the same sum at the same rate for 13 yr. The value of r is
(a) 8 (b) 10 (c) 16 (d) 12
67. A solid metal cube of edge 12 cm is immersed completely in water in a cylindrical vessel whose radius is 20 cm and height is 32 cm and the water is the vessel is up to a height of 15 cm. The height (in cm) by which the water will rise in the vessel is (correct to one decimal place).
(a) 0.9 (b) 1.4 (c) 1.2 (d) 1.1
68. If $x\%$ of 180 is 25% less than $(x + 350)$, then 18% of $(x + 50)$ is what percentage more than 12% of x ?
(a) 60 (b) 72 (c) 75 (d) 80
69. What is the radius (in cm) of a circle whose area is $2\frac{17}{30}$ times the sum of the areas of two triangles whose sides are 20 cm, 21 cm and 29 cm and 11 cm, 60 cm and 61 cm (take $\pi = \frac{22}{7}$)?
(a) 21 (b) 14
(c) 17.5 (d) 24.5
70. The average of 18 numbers is 65. The average of the first 10 numbers is 72 and that of the last 9 numbers is 58. If the 10th number of excluded, then what is the average of the remaining numbers (correct to one decimal place)?
(a) 64.6 (b) 66.6 (c) 65.2 (d) 65.4
71. Pipes A and B can fill a tank in 8 h and 12 h, respectively. C is an outlet pipe. When all the three are opened together, the tank is filled in $13\frac{1}{3}$ h. C alone can empty the full tank in
(a) $6\frac{1}{2}$ h (b) $7\frac{1}{2}$ h
(c) 8 h (d) 6 h
72. The value of $79 - [128 - \{75 - (72 \div 16 \times 4) + (18 \div 2 \text{ of } 6) \times 4\}]$ is
(a) 14 (b) 10
(c) 15 (d) 17
73. 84 persons take 56 days to complete a certain task. When one-fourth of the task was completed, one-seventh of the workers left. How many days in all does it take to complete the entire task?
(a) 60 (b) 64
(c) 66 (d) 63
74. When an article is sold for ₹ 768, the profit percentage is $x\%$. When the same article is sold for ₹ 896, the profit percentage is $(x + 20)\%$. What is the value of x ?
(a) 30 (b) 25
(c) 15 (d) 20
75. A 270 m long train takes 24 s to cross a pole. If it takes 1 min to cross a tunnel, then the length (in m) of the tunnel is
(a) 507 (b) 405
(c) 408 (d) 510



General Awareness

76. When did the World Trade Organisation come into existence?
(a) 1990 (b) 2000
(c) 1995 (d) 2005
77. What is Agraphla?
(a) Loss of the ability to hear
(b) Loss of the ability to speak
(c) Loss of the ability to write
(d) Loss of the ability to understand
78. Which of the following monuments is also known as the 'Taj of the Deccan'?
(a) Qutb Minar
(b) Bibi ka Maqbara
(c) Chand Minar
(d) Mahabat Maqbara
79. What does Ornithology deal with?
(a) Study of fish
(b) Study of reptiles and amphibians
(c) Study of insects
(d) Study of birds
80. Who among the following developed the Cholera vaccine in 1885?
(a) Edward Jenner
(b) Jaime Ferran
(c) Jonas Salk
(d) Leon Calmette
81. Which of the following states has the highest coal reserve?
(a) Chhattisgarh (b) Odisha
(c) Jharkhand (d) West Bengal
82. The European Champions Cup or Heineken Cup is associated with which sport?
(a) Rugby (b) Cricket
(c) Football (d) Hockey
83. The procedure for the nomination of members to the Rajya Sabha in the Constitution of India is borrowed from which of the following countries' Constitution?
(a) Russia (b) Germany
(c) Ireland (d) The US
84. Identify the waterways which separate the Andaman and the Nicobar Islands?
(a) Palk Strait
(b) Maliku Kandu
(c) Duncan Passage
(d) Ten Degree Channel
85. The Paithani saree weaving industry is in which state?
(a) Rajasthan (b) Gujarat
(c) Maharashtra (d) Assam
86. In which of the following cities was the Veda Samaj established in 1864?
(a) Bombay (now Mumbai)
(b) Madras (now Chennai)
(c) Calicut
(d) Calcutta (now Kolkata)
87. Which place had water harvesting system channeling the flood water of the Ganga river in the first century B.C?
(a) Kanpur (b) Gorakhpur
(c) Mirzapur (d) Sringerapur

88. What does Article 360 of the Constitution of India provide with?
 (a) Right to life
 (b) Financial emergency
 (c) Right to property
 (d) Fundamental duties
89. 'Harshacharita' (The Deeds of Harsha), which is the biography of Indian Emperor Harsha, was written by
 (a) Banabhatta
 (b) Swami Sivananda
 (c) Valmiki
 (d) Rabindranath Tagore
90. The 'Veeragase' dance, performed during the Dusshera festival holds a special place in the folk dances of the state of
 (a) Karnataka
 (b) Assam
 (c) Odisha
 (d) Sikkim
91. Under the rule of which king was the Sun Temple at Konark built?
 (a) Anantha Padmanabhan
 (b) Samudragupta
 (c) Narasimhadeva I
 (d) Anantavarman Chodaganga
92. Anjum Moudgil won the 2019 Arjuna Award for which sport?
 (a) Cricket
 (b) Shooting
 (c) Weightlifting
 (d) Boxing
93. Ronald Reagan, the 40th President of the US, signed the largest tax cut in the history of their country in 1981. Which economic theory was this policy centred around?
 (a) Laffer Curve
 (b) Lorenz Curve
 (c) Kuznets Curve
 (d) Sweezy's Kinked Demand Curve
94. Which of the following was the first English language newspaper of India?
 (a) Hicky's Bengal Gazette
 (b) Maratha
 (c) The Madras Courier
 (d) The Bombay Herald
95. How many seats are allocated to Bihar in the Lok Sabha as per the statewise list of the 17th Lok Sabha?
 (a) 60
 (b) 40
 (c) 78
 (d) 48
96. Who was the author of the book 'The Golden Threshold'?
 (a) Dr. Rajendra Prasad
 (b) Jawaharlal Nehru
 (c) Sarojini Naidu
 (d) ZA Bhutto
97. The difference between Revenue Receipts plus Non-debt Capital Receipts (NDCR) and total expenditure is called
 (a) Revenue Deficit
 (b) Fiscal Deficit
 (c) Effective Revenue Deficit
 (d) Primary Deficit
98. The two epics, 'Raghuvamsha' and 'Kumarasambhava' are works of
 (a) Valmiki
 (b) Ramdas
 (c) Sivananda
 (d) Kalidas
99. Which of the following elements is not a component of baking soda?
 (a) Hydrogen
 (b) Calcium
 (c) Sodium
 (d) Oxygen
100. Nyctalopia, more commonly known as Night Blindness, is caused by the deficiency of which nutrient?
 (a) Vitamin C
 (b) Magnesium
 (c) Potassium
 (d) Vitamin A

Answer Sheet

| | | | | | | | | | |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 1 (a) | 2 (b) | 3 (b) | 4 (d) | 5 (d) | 6 (b) | 7 (a) | 8 (b) | 9 (a) | 10 (c) |
| 11 (a) | 12 (d) | 13 (a) | 14 (a) | 15 (d) | 16 (b) | 17 (a) | 18 (a) | 19 (b) | 20 (c) |
| 21 (c) | 22 (d) | 23 (d) | 24 (c) | 25 (b) | 26 (d) | 27 (b) | 28 (b) | 29 (b) | 30 (c) |
| 31 (b) | 32 (d) | 33 (a) | 34 (c) | 35 (a) | 36 (d) | 37 (c) | 38 (c) | 39 (d) | 40 (d) |
| 41 (c) | 42 (b) | 43 (a) | 44 (c) | 45 (c) | 46 (b) | 47 (d) | 48 (b) | 49 (b) | 50 (c) |
| 51 (d) | 52 (d) | 53 (a) | 54 (b) | 55 (d) | 56 (c) | 57 (b) | 58 (d) | 59 (b) | 60 (d) |
| 61 (c) | 62 (b) | 63 (b) | 64 (b) | 65 (c) | 66 (b) | 67 (b) | 68 (d) | 69 (a) | 70 (a) |
| 71 (b) | 72 (a) | 73 (d) | 74 (d) | 75 (b) | 76 (c) | 77 (c) | 78 (b) | 79 (d) | 80 (b) |
| 81 (c) | 82 (a) | 83 (c) | 84 (d) | 85 (c) | 86 (b) | 87 (d) | 88 (b) | 89 (a) | 90 (a) |
| 91 (c) | 92 (b) | 93 (a) | 94 (a) | 95 (b) | 96 (c) | 97 (b) | 98 (d) | 99 (b) | 100 (d) |



Hints & Solutions

1. (a) The idiom 'over the moon' means extremely happy.
2. (b) 'Extravagent' is an incorrectly spelt word. The correct spelling is 'Extravagant'.
3. (b) 'Absense' is an incorrectly spelt word. The correct spelling is 'Absence'.
4. (d) 'Impervious' is a person who remains unmoved and unaffected by other people's opinions.
5. (d) 'Fluorescent' means glowing. So, option (d) is the correct answer.
6. (b) 'Copycat' is the one who imitates another closely.
7. (a) Part (a) contains an error. Replace 'a' with 'an' to improve the sentence.
8. (b) 'Ferry' is a boat or ship for conveying passengers and goods, especially over a relatively short distance and as a regular service.
9. (a) 'Flimsy' means feeble and easily damaged. So, option (a) 'strong' is the correct antonym of it.
10. (c) Replace the underlined part with 'certainly going' to improve the sentence.
11. (a) 'Conversation' is the correct answer, as per the given context.
12. (d) Part (d) has an error. Replace 'to continue on' with 'to continue with' to make the sentence error free.
13. (a) 'Graceful' means beautiful and elegant. So, option (a) 'elegant' is the correct synonym of it.
14. (a) Replace the underlined part with 'found out that' because the given sentence is in past tense.
15. (d) 'Before' is the correct answer.
16. (b) 'Defense' means to protect someone and 'offense' means to attack someone. So, they are opposite to each other.
17. (a) Part (a) has an error. Replace 'up the rat' with 'upon the rat'. The phrase 'pounced upon' means to jump over something or someone.
18. (a) Preposition 'between' is the suitable word for the given blank.
19. (b) The underlined part should be replaced by 'there are' to improve the sentence.
20. (c) 'Withdraw' is the correct form of verb, to fill the given blank.
21. (c) 'Were' is the correct answer.
22. (d) 'Do' is the correct answer.
23. (d) 'Went' is the correct answer.
24. (c) 'To' is the correct answer.
25. (b) 'Pampered' is the correct answer.
26. (d) Given expression

$$72 + 108 \div 9 - 11 \times 2 = 18$$
 Interchange 6 and 2,

$$72 + 108 \div 9 - 11 \times 6 = 18$$

Solving using BODMAS,

$$\Rightarrow 72 + 12 - 11 \times 6 = 18$$

$$\Rightarrow 72 + 12 - 66 = 18$$

$$\Rightarrow 84 - 66 = 18$$

$$18 = 18$$

\therefore Equation is satisfied, so the interchange of 6 and 2 is correct one.

27. (b) Given expression $38 \text{ A } 56 \text{ B } 8 \text{ C } 15 \text{ D } (36 \text{ E } 28) = 151$

Replace letters with $-, \div, +, \times, -$ respectively and solve using BODMAS,

$$\therefore 38 - 56 \div 8 + 15 \times (36 - 28) = 151$$

$$\Rightarrow 38 - 56 \div 8 + 15 \times 8 = 151$$

$$\Rightarrow 38 - 7 + 15 \times 8 = 151$$

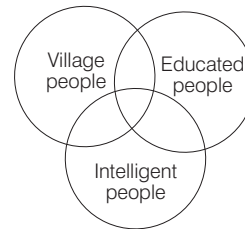
$$\Rightarrow 38 - 7 + 120 = 151$$

$$\Rightarrow 158 - 7 = 151$$

$$\Rightarrow 151 = 151$$

\therefore Equation is satisfied.

28. (b) Best representation of given classes with venn diagram is,



29. (b) Option figure (b) is embedded in the given question figure without rotation.



30. (c) First, second and third figure change their places and come at second, third and first places respectively in each step and third figure changes its internal design.

\therefore The next or fourth box will have figures of option (c).

31. (b) As, young is the stage/adjective of an age. Similarly, short is the stage of a period.

32. (d) As,

$$\begin{array}{ccccccccc} 1 & 2 & 3 & 4 & 5 & & & & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & & & \\ 1 & 8 & 27 & 64 & 125 & & & & \end{array} \quad \begin{array}{l} \text{Cube} \\ \text{Cube} \end{array}$$

In the similar way,

$$\begin{array}{ccccccccc} 6 & 5 & 4 & 2 & 8 & & & & \\ \downarrow & \downarrow & \downarrow & \downarrow & \downarrow & & & & \\ 216 & 125 & 64 & 8 & 512 & & & & \end{array} \quad \begin{array}{l} \text{Cube} \\ \text{Cube} \end{array}$$