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Kindle Edition

Preface

The Ministry of Indian Railways has been conducting Computer Based Tests (CBT) for numerous vacancies year after year. This year too, it is committed to hold the CBT for all the notified vacancies and has been actively assessing the ground situation imposed due to the ongoing pandemic. Hence, it now proposes to commence 1st stage Online Computer Based Tests from 15th December, 2019 and necessary action has been initiated in this regard.

This book is an endeavor of Oswaal Books to assist RRB NTPC aspirants prepare for and excel in this examination. It has been written to provide the aspirants well-conceptualized and structured practice material.

RRB NTPC Test Series 2023 intends to guide the students to solve questions with a higher degree of accuracy and within the stipulated time. It has been prepared by a team of expert academicians after thorough research and analysis of the RRB NTPC exam pattern, syllabus, and previous years' papers. The book aims to ease the learning methodology and facilitates last-minute revision, it gives a fair idea to the students about the structure of the question paper and the type of questions asked in the exam.

The volume begins with an overview of RRB NTPC exam, its notification, exam calendar, vacancies, pattern, and syllabus. The practice material has been bifurcated into two parts – previous year question papers and mock test papers - along with hints and solutions and the requisite tips and tricks. Students can analyze their performance and gauge their preparation with that of the toppers with a smart answer sheet provided in the book.

Immense efforts have been undertaken to maintain lucidity of the structure and uniqueness of content. We hope that this book will help you at every step as you move closer to your career goal. We wish you all great success ahead!

All the Best !
Team Oswaal Books

How to use this Book

NAVIGATION



In which city was the information Fusion Centre-Indian Ocean Region inaugurated recently ?

- TTA : 79 seconds
- | | |
|------------|--------------|
| A. Guwahti | B. Kolkata |
| C. Gurgaon | D. New Delhi |

- TTA : Ideal 'Time To Answer' this question

SMART ANSWERSHEET

Correct %	Indicates % of students answered correctly.
------------------	---

Skipped %	Indicates % of students skipped questions.
-----------	--

 Easy
 Medium
 Difficult

Q. A.	Correct Skipped	Q. A.	Correct Skipped	Q. A.	Correct Skipped	Q. A.	Correct Skipped	Q. A.	Correct Skipped	Q. A.	Correct Skipped
1.B	17% 39%	16.B	54% 37%	31.C	58% 26%	46.B	47% 45%	61.D	64% 36%	76.C	12% 50%
2.B	62% 25%	17.C	11% 48%	32.A	58% 24%	47.D	42% 40%	62.B	64% 36%	77.C	7% 78%
3.C	42% 25%	18.B	26% 32%	33.B	14% 48%	48.A	23% 38%	63.B	64% 36%	78.C	7% 65%
4.C	60% 31%	19.C	61% 33%	34.D	51% 36%	49.C	35% 49%	64.B	64% 36%	79.A	24% 64%
5.C	21% 30%	20.A	25% 47%	35.C	46% 27%	50.A	14% 36%	65.C	64% 36%	80.D	52% 42%
										94.A	43% 44%
										95.D	32% 53%

Correct Answer

Skipped Question ●

Detailed Solutions on
www.oswaalbooks.com



Available link for all test series on website

Direct QR code for the website

Contents

Important Information	Page No.
➤ RRB NTPC Official Advertisement 2023	<i>vi - viii</i>
➤ RRB NTPC Syllabus	<i>ix - ix</i>
➤ Tips and Tricks for Mathematics & Reasoning	<i>x - xiv</i>
➤ RRB NTPC Solved Paper 2019 (Held on 28 th Dec 2020 Shift-01)	<i>xv - xxxi</i>
➤ RRB NTPC Solved Paper 2019 (Held on 22 nd Feb 2021 Shift-01)	<i>xxxii - xlvi</i>

Types	Papers	Page No.
Previous Years RRB NTPC (Question Papers)	Previous Year Paper - 01 (Held on : 02 nd April 2016 Shift 02)	1 - 8
	Previous Year Paper - 02 (Held on : 05 th April 2016 Shift 02)	9 - 15
	Previous Year Paper - 03 (Held on : 03 rd April 2016 Shift 01)	16 - 23
	Previous Year Paper - 04 (Held on : 06 th April 2016 Shift 01)	24 - 30
	Previous Year Paper - 05 (Held on : 11 th April 2016 Shift 01)	31 - 38
	Previous Year Paper - 06 (Held on : 30 th March 2016 Shift 01)	39 - 46
	Previous Year Paper - 07 (Held on : 31 st March 2016 Shift 02)	47 - 54
	Previous Year Paper - 08 (Held on : 28 th March 2016 Shift 01)	55 - 61
	Previous Year Paper - 09 (Held on : 29 th March 2016 Shift 01)	62 - 68
	Previous Year Paper - 10 (Held on : 12 th April 2016 Shift 02)	69 - 75
Mock Test Papers (Prepared by Experts)	Mock Test Paper - 01	76 - 83
	Mock Test Paper - 02	84 - 92
	Mock Test Paper - 03	93 - 101
	Mock Test Paper - 04	102 - 110
	Mock Test Paper - 05	111 - 118
	Mock Test Paper - 06	119 - 126
	Mock Test Paper - 07	127 - 135
	Mock Test Paper - 08	136 - 144
	Mock Test Paper - 09	145 - 152
	Mock Test Paper - 10	153 - 160



RRB NTPC Official Advertisement-2023

Railway Recruitment Board, Non-Technical Popular Categories 2023 or RRB NTPC 2023 is a popular recruitment exam conducted by the ministry of railways. Through this exam, the candidates are shortlisted for the graduate and undergraduate posts in the Indian Railways. To select the applicants, the ministry will conduct two computer-based tests (CBT) followed by the skill/ medical tests. Candidates who want to apply for the RRB NTPC 2023 exam have to fill an online application form before the last date. All the necessary details regarding the RRB NTPC 2023 exam are provided in the post below.

RRB NTPC 2023 Overview

Exam Name	RRB NTPC 2023
Full Form	Railway Recruitment Boards Non-Technical Popular Categories Exam 2023
Mode of Application	Online
Mode of exam	Online
Official Website	https://www.rrbcdg.gov.in/

RRB NTPC 2023 Main Highlights

- The following Railway Recruitment Boards (RRBs) will select the candidates on the basis of this exam – RRB Ahmedabad, Ajmer, Allahabad, Bangalore, Bhopal, Bhubaneswar, Bilaspur, Chandigarh, Chennai, Gorakhpur, Guwahati, Jammu-Srinagar, Kolkata, Malda, Mumbai, Muzaffarpur, Patna, Ranchi, Secunderabad, Siliguri, Thiruvananthapuram.
- Eligibility criteria of RRB NTPC 2023 vary for different posts. Candidates are requested to check it carefully before submitting the form.
- After the 1st stage of computer-based test, RRBs will shortlist candidates 20 times the number of available vacancies.
- While filling the application form, candidates have to provide the preference for the posts available.
- Selected candidates have to execute surety and indemnity bond (if applicable) at the time of joining the railways.

Exam Calendar

Main Events	Tentative Dates
Publication of official notification	Last week of February 2023
Starting of online application form submission	1 st week of March 2023
Last date to register on online portal	Last week of March 2023
Last date to submit application fee	1 st week of April 2023
Final submission of the application form	2 nd week of April 2023
Admit Card Availability	May 2023
Date of computer-based test (1st stage)	June 2023 to September 2023

RRB NTPC Vacancies Summarised

The available posts are divided among the undergraduate and graduate candidates as given below:

For undergraduate candidates (12th pass)

- Junior Clerk cum Typist
- Accounts Clerk cum Typist
- Junior Time Keeper
- Trains Clerk
- Commercial cum Ticket Clerk

For graduate candidates

- Traffic Assistant
- Goods Guard
- Senior Commercial cum Ticket Clerk
- Senior Clerk cum Typist
- Junior Account Assistant cum Typist
- Senior Time Keeper
- Commercial Apprentice
- Station Master

RRB NTPC 2023 Eligibility Criteria

As you can see, the posts are divided under two categories i.e. undergraduate and graduate candidates. The RRB NTPC eligibility criteria 2023 are different for undergraduate and graduate posts as illustrated below. Read basic eligibility for different posts:

For Undergraduate Post

- The age of a candidate must be between 18 to 30 years as on 1st July 2023.
- Applicant must have cleared the class 12th or equivalent exam from a recognized board.

For Graduate post

- The age of the candidates should be between 18 to 33 years as on 1st July 2023.
- The applicants should possess a bachelor's degree or equivalent from a recognized university.

Important Points regarding eligibility criteria

- Please note that the candidates waiting for the result of the prescribed educational qualification need not apply.
- SC/ ST candidates will get a relaxation of 5 years in upper age limit.
- The relaxation in upper age limit for OBC candidates is 3 years.
- There will be some additional requirements for a few posts as well. For example – Candidates looking for junior accounts assistant cum typist post should have typing proficiency in English/ Hindi.
- Candidates with following nationalities only can apply
 - A citizen of India,
 - a subject of Bhutan,
 - subjects of Nepal,
 - a Tibetan refugee who came to India before 1st January 1962 with an intention to permanently settling here
 - An Indian origin person migrated to India from Burma, Sri Lanka, Pakistan, Vietnam and East African countries of Uganda, Kenya, Zambia, the united republic of Tanzania, Malawi, Ethiopia and Zaire.

RRB NTPC 2023 Application Form

The RRB NTPC Application Form 2023 for all the posts will be available online through the official website of the respective RRB in which the candidate is looking to apply.

1. To initiate the RRB NTPC 2023 application procedure, the candidates have to register by providing basic details such as name, date of birth, father's name, 10th class roll number, etc.
2. After registration, the candidates have to verify their email id and phone number using OTP.
3. Then, aspirants can proceed to fill out the rest of the details in the application form.
4. Make sure to enter the details as accurately as possible. Otherwise, the form may get rejected.
5. Candidates also need to choose the language in which they want to attempt the exam. The available languages are Assamese, Bengali, Gujarati, Hindi, Kannada, Konkani, Malayalam, Marathi, Manipuri, Punjabi, Telugu, Tamil and Urdu.

6. Additionally, the aspirants also need to provide their bank account details in the application form so that they can get the refund of an application fee.
7. Applicants also need to upload the scanned images of their photograph and signature in a proper format. The colored photograph must be taken on or after 1st January 2023.
8. SC/ ST candidates who will opt to avail free rail travel need to upload the scanned image of their SC/ ST certificate.
9. Candidates may save the confirmation page or take its printout for the future requirement.

Application Fee

The application fee varies for the candidates of different categories as given below:

- **Male candidates of General/ OBC candidates:** Rs. 500/- (Rs. 400/- to be refunded after appearing for 1st stage CBT)
- **Female/ PwBD/ Transgender/ SC/ ST/ Ex-Servicemen/ Economically Backward Classes:** 250/- (Fee will be refunded after appearing for 1st stage CBT)

Mode of Payment

- **Online:** Using credit card/ debit card/ Internet banking or UPI
- **Offline:** By submitting SBI challan at any branch of SBI or depositing post office challan at any branch of the computerized post office.

Exam Pattern

Read important information about exam pattern below:

1st Stage Computer-Based Test

- Mode of Exam: Online
- Duration of Exam: 90 minutes
- Number of Questions: 100
- Type of Questions: Objective type MCQ
- Maximum Marks: 100
- Marking Pattern: 1 mark will be given for a correct answer
- Negative Marking: 1/3 marks will be deducted for every incorrect answer.

Subjects and distribution of questions

Subjects	Number of Questions	Maximum Marks
General Awareness	40	40
Mathematics	30	30
General Intelligence and Reasoning	30	30
Total	100 Questions	100 Marks

2nd Stage Computer Based Test

- Examination Mode: Online
- Duration of Exam: 90 minutes
- Total Number of Questions: 120
- Type of Questions: Objective type multiple choice questions
- Maximum marks: 120
- Marking Scheme: Each question will carry 1 marks
- Negative Marking: 1/3 marks will be deducted in case a wrong answer

Subjects	Number of Questions	Maximum Marks
General Awareness	50	50
Mathematics	35	35
General Intelligence and Reasoning	35	35
Total	120 Questions	120 Marks

RRB NTPC Syllabus

Given below are the subject-wise important topics for the RRB NTPC 2023 examination. Go through the detailed overview of syllabus here-

Mathematics: Number System, Decimals, Fractions, HCF, LCM, Time and Distance, Elementary Algebra, Simple and Compound Interest, Ratio and proportion, Profit and Loss, Geometry and Trigonometry, Elementary Statistics, etc.

General Intelligence and Reasoning: Analogies, Completion of Number and Alphabetical Series, Coding and Decoding, Reasoning, Syllogism, Jumbling, Venn Diagrams, Puzzle, Data Sufficiency, Mathematical Operations, Similarities and Differences, Relationships, etc.

General Awareness: Current Events of National and International Importance, Games and Sports, Art and Culture of India, Indian Literature, Monuments and Places of India, General Science and Life Science (up to 10th CBSE), Indian Polity and Governance- constitution and political system, General Scientific and Technological Developments including Space and Nuclear Program of India, etc.

RRB NTPC Admit Card

- The RRB NTPC Admit Card 2023 will get released on the official website about 10 days prior to the date of exam.
- SMS and email will also be sent to the candidates informing about the releasing of an admit card.
- Please note that the call letter or admit card will not be sent by post.
- Details about the examination venue and date will present on the admit card.
- Candidates should read the instructions given on the backside of an admit card very carefully.
- Aspirants also required to carry one photo identity proof along with the admit card.
- Candidates also need to bring one photograph (same as uploaded in the application form) at the examination center.



Tips and Tricks for Mathematics

Nature of Questions	Chapters	Weightage	Topics	Tips
1. Soaring	Simplification	4-5	Questions on BODMAS Rule, Fractions, Approximate Value, Surds and Indices etc.	Solve Accordingly V \bar{x} (vinculum or bar) B $\{ [()] \}$ (brackets $() \rightarrow \{ \} \rightarrow []$) O \times (off or multiply) D \div (divide) M \times (multiply) A $+$ (add / sum) S $-$ (subtract / minus)
2. East to Solve				<div> Square Root (2 digits) </div> <div> Fractions </div>
3. Less time consuming				<div> 35^2 (break the number into digits) $= 3 < \rightarrow 5^2$ $n \times (n + 1)$ [here, $n = 1^{\text{st}}$ digit] & square of 2^{nd} digit $= 3 \times (3 + 1) \text{ \& } 5 \times 5$ $= 12 \quad \& \quad 25$ $= 1225$ </div> <div> $\frac{2}{5} + \frac{3}{4}$ multiply the denominator of the 1^{st} fraction with the numerator of the second and visversa $\frac{2 \times 4}{5 \times 4} + \frac{3 \times 5}{5 \times 4}$ $\frac{8 + 15}{20}$ $23/20$ or $2.3/2$ </div>
4. More accuracy possible	Interest	1-2	Problems on Simple and Compound Interest, and Installments	$SI = \frac{PRT}{100}$ Difference b/w CI & SI (2 years) = $\frac{PR^2}{100^2}$ Difference b/w CI & SI (3 years) = $\frac{PR^2(300 + R)}{100^3}$
	Percentage	2-3	Calculation-oriented basic Percentage Problems	Percentage 50% of x – Divide x by 2 25% of x – Divide x by 4 20% of x – $20 \times x$, place decimal before last 2 digit
	Ratio and Proportion	1-2	Problems on Simple/Compound Ratios and Direct/Indirect Proportions	If $x : y$ and $z : a$, then it can be solved as $(x \times z) / (y \times a)$ If the three ratios, $x : y$, $y : z$, $z : a$ is known, we can find $x : a$ by the multiplying these three ratios $x/a = x/y \times y/z \times z/a$
	Average	2-3	Problems on Average Weight/Height/Marks etc.	$\text{Average} = \frac{\text{Total of data}}{\text{No. of data}}$

	Problems on Ages	1-2	Basic Problems on Ages	In most cases, assume present age as 'x', i.e., the base year works just fine. Past will be, $(x - 5)$ years and future can be denoted as $(x + 5)$.
1.Scoring	Speed Time and Distance	1-2	Problems on Average/ Relative speeds, Boat, Trains etc	B km/hr to m/s= $(B \times 5/18)$ m/s B m/s to km/h= $(B \times 18/5)$ km/s
2.Easy if proper steps are followed	Algebra	1-2	Basic Linear Equations in one or two variables	$3x - 4y = 13$ --- (i) $5x + 2y = -13$ ---(ii) $x = \frac{(-4)(-13) - (2)(13)}{(-4)(5) - (2)(3)} = \frac{26}{-26} = -1$ To find y put the value in one equation
3. More time Consuming	Profit and Loss	2-3	Problems on Profit/ Loss, Dishonest/ Successive dealings, Partnership etc.	If P% = CP = ? & SP = 144 Split 144 (difference should be 10) $144 = 18 \times 8$ (difference 10) Now if P% = CP put zero after smaller value And if L% = CP put zero after greater value Now answer will be 80
	Number Series	2-3	Moderate to difficult problems on Completing the series, Finding Missing/ Wrong Term	Integers – 1,3,5,9..... Rational $\frac{1}{2}, \frac{3}{4}, \dots$ 1.75,3.25.... Arithmetic $x_n = x_1 + (n - 1) d$ 3,8,13,18.... Square $x_n = n^2 - 2$,4,16,32..... Fibonacci — $F_0=0, F_1=1,$ $F_n = F_{n-1} + F_{n-2}.$ 0,1,1,2,3,5,8,13,21, 34,...
		1-2	Problems on Plane Figures such as Square, Rectangle, Circles etc.	Perimeter = sum of all side Rect. = $l+b+l+b$, Squ = $s+s+s+s$, Tri. = $a+b+c$ Area = multiplication of adjacent sides Rect. = $l \times b$, Squ = $s \times s$, Tri. = $(b \times h)/2$
1.Tricky	Time and Work	1-2	Problems on Work efficiency, Wages and Pipes etc.	A= 10 & B= 20 days (to complete the same job.) A+B =? days (to complete the same job.) A's efficiency = $100/10 = 10\%$ per day B's efficiency = $100/20 = 5\%$ per day A+B = $100/15 = 6.66$ days
2. Less accuracy possible	Mixture problems	1-2	To Make A Mixture from Two Or More Entities/Mixtures	Allegation = $\frac{\text{Quantity of Cheaper}}{\text{Quantity of Dearer}}$ $= \frac{\text{CP of Dearer} - \text{Mean price}}{\text{Mean price} - \text{CP of Cheaper}}$

□□

Tips and Tricks for Reasoning

Name of Questions	Chapters		Comments	Tips																								
1.Scoring 2.Easy to Solve		0-2	Number, Letter and Meaningful Words based questions. GK based questions can also be asked.	Learn Alphabet’s position E-J-O-T-Y = 5-10-15-20-25 C-M-W = 3-13-23 T=20 By shape you can remember H=8, F=6, X=24, V=21																								
3.Less Time Consuming	Analogy	0-2	Number, General Knowledge, Meaning and Letter based questions	Turn the analogies into sentences. Read the analogy problems as sentences, even if they aren’t written that way																								
	Series	1-3	Mainly questions on Alphabet & Numbers series	Add, subtract, multiply, divide, square, cube Mix pattern; - $N \times (1+0)$, $N \times (1+.5)$, $N \times (1.5+1)$, $N \times (2.5+1.5)$...																								
4.High Accuracy possible	Coding Decoding	0-2	Questions on Coding and Decoding by letter shifting, and Coding letters of a Word. Could also include Coding by Analogy and Coding Decoding based on numbers, Operations on place value and Coding and Decoding in fictitious language.	Letter position (A=1, B=2, C=3... Y=25, Z=26) Opposite position of letters (A=26, B=25... Z=1) Opposite of each letter (A=Z, B=Y, C=X....)																								
	Blood Relations	0-2	Mostly Family Tree problems. General Blood Relation problems are also possible.	In solving mixed Blood Relations questions, make sure, that the question is represented in diagrammatical format																								
	Clock and Calendar	0-2	Mostly based on calendar	To find What was the day on week : <table><tr><td>1600-1699</td><td>1700-1799</td><td>1800-1899</td><td>1900-1999</td><td>2000-2099</td></tr><tr><td>6</td><td>4</td><td>2</td><td>0</td><td>6</td></tr></table> <table><tr><td>Jan Oct</td><td>Feb Mar Nov</td><td>Apr Jul</td><td>May</td><td>Jun</td><td>Aug</td><td>Sep Dec</td></tr><tr><td>0</td><td>3</td><td>6</td><td>1</td><td>4</td><td>2</td><td>5</td></tr></table> <div>Sun=0.7, Mon=1, Tue=2, Wed=3, Thurs=4, Fri=5,</div>	1600-1699	1700-1799	1800-1899	1900-1999	2000-2099	6	4	2	0	6	Jan Oct	Feb Mar Nov	Apr Jul	May	Jun	Aug	Sep Dec	0	3	6	1	4	2	5
1600-1699	1700-1799	1800-1899	1900-1999	2000-2099																								
6	4	2	0	6																								
Jan Oct	Feb Mar Nov	Apr Jul	May	Jun	Aug	Sep Dec																						
0	3	6	1	4	2	5																						

				<p>1. Add the day digits to last two digits of the year</p> <p>2. Divide last two digits of the year by four and add it to the result in step 1</p>
				<p>3. Add Month Code and Year Codes to the result obtained in step 3</p> <p>4. Divide the result of step 4 by seven</p> <p>5. Obtain the remainder and match with the day codes</p>
	Ordering & Ranking	0-2	May be asked	<p>Find the total no. of people if the ranks of one person is given from both sides (left & right)</p> <p>Total number of people = $R_1 + R_2 - 1$</p>
	Directions & Distances	0-2	Simple problems that can be solved by just drawing all the information on paper. May be asked	<p>DIRECTION</p> <p>Left + Left = Down, Left + Right = Up</p> <p>Right + Left = Up, Right + Right = Down</p> <p>Up + Left = Left, Up + Right = Right</p> <p>Down + Left = Right, Down + Right = Left</p>
	Arranging Words in Meaningful Order	0-2	It can be a meaningful order of doing a certain task or following a certain rule	<p>Sequence of stages/ series of events/ Increasing or decreasing value/ size/intensity/According to dictionary/ Objects/things from 'part' to 'whole'</p>
	Word formation	0-2	From the given word find whether the given options can be formed or not	<p>You should have strong vocabulary knowledge to judge the right spelling of a word</p>
	Missing Number	0-2	Find the missing number from the given matrix or diagram	<p>Observe & look for familiar pattern in the Questions</p> <p>The Second step is finding out the pattern</p> <p>There is no need to memorize any pattern</p> <p>You need is to understand the Concept and decipher the pattern</p>

	Venn Diagram	0-2	Problems based on Venn Diagram	<p>If there are only two elements $n(A \cup B) = n(A) + n(B) - n(A \cap B)$</p> <p>If there are three elements $n(A \cup B \cup C)$ $= n(A) + n(B) + n(C) - n(A \cap B) - n(B \cap C) - n(C \cap A) + n(A \cap B \cap C)$</p>
	Puzzle	0-2	<p>Number based puzzles like $7 \times 5 \times 6 \times 5 = 6575$, then $8 \times 7 \times 4 \times 6 = ?$</p> <p>Or Count number of trees in row type questions</p> <p>Or Find the correct equations type questions</p>	<p>Collect information; Arrange information</p> <p>Identify information; Approach step-by-step</p>
	Non-Verbal Reasoning	0-3	Questions like Completing the pattern, Figure-based Analogy/Classification/Series or Cube-based questions may be asked.	<p>Accuracy; Draw out the questions Practice; Attention to detail</p>



RRB - NTPC SOLVED PAPER (2019)

28th Dec 2020
(Shift-1)

Instructions

- The test contains 100 objective type questions.
- All questions are compulsory.
- Complete the test within 90 minutes.
- All questions contain four alternatives, in which only one is correct.

- Which two banks were merged with Bank of Baroda with effect from 1st April 2019?
(1) Syndicate Bank and UCO Bank
(2) Union Bank of India and Andhra Bank
(3) Vijaya Bank and Dena Bank
(4) Allahabad Bank and Canara Bank
- Two buses start from opposite points towards each other on a main road, 185 km apart. The first bus runs for 35 km and takes a right turn and runs for 17 km. It then turns left and runs for another 42 km and takes the direction back to reach the main road, in the meantime, due to a minor breakdown, the other bus has run only 36 km along the main road. What would the distance between the two buses be at this point?
(1) 85 km (2) 80 km
(3) 75 km (4) 72 km
- Pattachitra style of painting is one of the oldest and most popular art forms of which of the following states?
(1) Andhra Pradesh (2) Rajasthan
(3) Odisha (4) Bihar
- Which of the following states is NOT a member of 'Seven Sisters' states of North-East India?
(1) Tripura (2) Sikkim
(3) Meghalaya (4) Mizoram
- Where is the headquarters of the International Court of Justice located?
(1) The Hague (2) Paris
(3) Washington D.C. (4) New York
- Four number-pairs have been given, out of which three are alike in some manner and one is different. Select the odd one.
(1) 12 - 96 (2) 13 - 104
(3) 15 - 120 (4) 16 - 118
- Mukesh was facing the south. He walked 5 km straight and from there he turned at a 90° angle to his right and walked 5 km. Then he turned at a 45° angle to his left and walked 3 km. Where will he be from his actual position?
(1) North-west direction
(2) South-west direction
(3) South direction
(4) South-east direction
- What is Sukanya Samriddhi Yojana?
(1) A small deposit scheme for the girl child.
(2) A scheme to provide bicycles for girls studying in the 10th class.
(3) A scheme to provide skills that give employability to women.
(4) A scheme to develop self-defence skills in girls.
- Four words have been given, out of which three are alike in some manner and one is different. Select the odd one.
(1) Chalk (2) Book
(3) Pen (4) Marker
- Select the letter cluster that can replace the question mark (?) in the following series. BZA, DYC, FXE, HWG, ?
(1) JUH (2) JVH
(3) KVI (4) JVI
- Who said, "Freedom is my birth right and I shall have it"?
(1) Bhagat Singh
(2) Bal Gangadhar Tilak
(3) Gopal Krishna Gokhale
(4) Chandra Shekhar Azad

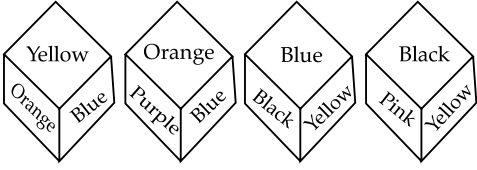


12. Out of Harish's monthly salary of ₹45,000, $\frac{1}{3}$ of the expenditure are on education and $\frac{2}{6}$ of the expenditure are on food and other necessities. The rest of the salary goes towards his savings. The amount of savings is:
 (1) ₹22,500 (2) ₹12,000
 (3) ₹15,000 (4) ₹11,250
13. In which city was the Khelo India Youth Games, 2020 held?
 (1) Guwahati (2) Kolkata
 (3) Chennai (4) Bangalore
14. What is 'UBUNTU'?
 (1) Malware (2) Operating system
 (3) External hard drive (4) Web Browser
15. In which of the following continents is the Gobi desert located?
 (1) Europe (2) North America
 (3) Asia (4) Africa
16. Which part of the computer is called its brain?
 (1) CPU (2) Monitor
 (3) Hard Disc (4) ROM
17. Shweta and Harish completed a project with an income of ₹28,000. In this project Shweta worked for 20 days and Harish worked for 30 days. If their daily wages are in the ratio of 5 : 6, then Shweta's share is:
 (1) ₹16,000 (2) ₹12,000
 (3) ₹18,000 (4) ₹10,000
18. If $\frac{1}{\sin^2 65^\circ + \cos^2 65^\circ} + \frac{\sin 15^\circ}{\cos 75^\circ} + \frac{\cos 65^\circ}{\sin 25^\circ} = \sqrt{3} \tan \theta$, then the value of θ is:
 (1) 45° (2) 60°
 (3) 90° (4) 30°
19. Where is the Sabarimala temple located?
 (1) Kerala (2) Andhra Pradesh
 (3) Odisha (4) Maharashtra
20. Which of the following passes connects Srinagar and Leh?
 (1) Nathu La (2) Bara La
 (3) Jelep La (4) Zoji La
21. In which state is the Kudanukulam Nuclear Power Station located?
 (1) Tamil Nadu (2) Rajasthan
 (3) Karnataka (4) Gujarat
22. A group of friends are sitting in an arrangement with one each at the corner of an octagon. All are facing the centre. Medha is sitting diagonally opposite Radha. Medha is on Seema's left. Raman is next to Seema and opposite to Govind. Govind is on Chandra's right. Shanti is not an Medha's right but is opposite to Shashi. Who is opposite to Chandra?
 (1) Seema (2) Radha
 (3) Shanti (4) Raman
23. Which of the following is in the list of Maharatna Central Public Sector Enterprises?
 (1) Central Coal fields Limited
 (2) Cochin Shipyard
 (3) India Tourism Development Corporation
 (4) Coal India Limited
24. Which of the following units is used for measuring the amount of a substance?
 (1) Tesla (2) Joule
 (3) Lux (4) Mole
25. The unit digit in $4 \times 38 \times 764 \times 1256$ is:
 (1) 5 (2) 4
 (3) 6 (4) 8
26. The ratio of ladies to gents numbers in a club is 3 : 2. Recently, 300 ladies joined the club and the ratio became 5 : 2. The number of lady members now in the club is:
 (1) 1200 (2) 900
 (3) 600 (4) 750
27. Between which two cities does India's first semi high-speed train 'Vande Bharat Express' run?
 (1) Puri and Howrah Junction
 (2) Ahmedabad and Mumbai Central
 (3) New Delhi and Varanasi Junction
 (4) Hazrat Nizamudding and Jhansi Junction
28. The value of $\frac{6}{5}$ of $\left(\frac{1}{3} + \frac{2}{4}\right) - \frac{5}{6}$ of $\left(\frac{3}{10} + \frac{12}{20}\right) - \frac{1}{6}$ is:
 (1) $\frac{1}{12}$ (2) $\frac{1}{3}$
 (3) $\frac{3}{4}$ (4) $\frac{5}{6}$
29. The ratio of two positive numbers is 3 : 7 and their LCM is 231. The smaller number is:
 (1) 55 (2) 33
 (3) 44 (4) 77
30. In which year was the Second battle of Panipat fought between Akbar and Hemu?
 (1) 1556 (2) 1576
 (3) 1536 (4) 1526
31. Who was the founder of the Prarthana Samaj?
 (1) Swami Dayanand Saraswati
 (2) Raja Ram Mohan Roy
 (3) Atmaram Pandurang
 (4) Swami Vivekananda
32. The cost price of an article is 75% of the marked price. If a discount of 15% is allowed, then the profit or loss percentage is:
 (1) 12.44% loss (2) 15% profit
 (3) 15.55% loss (4) 13.33% profit
33. Who is the author of 'Rajatarangini' ?
 (1) Jayadeva (2) Kalidasa
 (3) Kalhana (4) Chand Bardai
34. The simple interest on an amount of ₹3400 for 4 years is ₹680. The rate of interest is:
 (1) 8% (2) 4%
 (3) 5% (4) 6%

35. Select the option that is related to the third term in the same way as the second term related to the first term.
Lawyer : court :: beautician : ?
(1) house (2) ship
(3) class (4) parlour
36. Though which of the following mediums can sound NOT travel?
(1) Vacuum (2) Milk
(3) Air (4) Steel
37. Which Indian state has the longest mainland coastline?
(1) Gujarat (2) Maharashtra
(3) Odisha (4) Kerala
38. What is the maximum strength of the members of the Lok Sabha?
(1) 543 (2) 547
(3) 549 (4) 552
39. Which of the following diseases is caused by a virus?
(1) Cholera (2) Typhoid
(3) Chicken Pox (4) Tuberculosis
40. The adjacent angles of a rhombus are in the ratio of 3 : 6. The smaller angle of the rhombus is:
(1) 120° (2) 40°
(3) 80° (4) 60°
41. In order to qualify in an examination, one has to secure 50% of the overall marks. In the examination consisting of two papers, a student secured 40% in the first paper of 200 marks. Minimum what percentage of marks should be secured in the second paper of 150 marks in order to qualify in the examination?
(1) 64% (2) 60%
(3) 68% (4) 65%
42. In the following question, select the related words from the given alternatives.
Writer : Pen :: Tailor : ?
(1) Scalpel (2) Axe
(3) Needle (4) Saw
43. Select the number from among the given options that can replace the question mark (?) in the following table.
- | | | |
|-----|-----|---|
| 5 | 4 | 3 |
| 6 | 5 | 4 |
| 7 | 6 | 5 |
| 384 | 245 | ? |
- (1) 269 (2) 249
(3) 144 (4) 244
44. The term 'Sericulture' is related to which of the following?
(1) Silk farming (2) Fish farming
(3) Bird farming (4) Bee farming
45. Name the theme declared by United Nations for World Environment Day, 2020.
(1) Beat Plastic Pollution
(2) Biodiversity
(3) Connecting People to Nature
(4) Water pollution
46. Which of the following is a multi-barrel rocket system developed by DRDO?
(1) Dhanush (2) Trishul
(3) Pinaka (4) Prithvi
47. Which of the following monuments is NOT located in Delhi?
(1) Humayun's Tomb (2) India Gate
(3) Buland Darwaza (4) Alai Darwaza
48. From among the given options, select the word which CANNOT be formed using the letters of the given word.
LAUGHTER
(1) GRUNT (2) GATE
(3) HATE (4) RATE
49. Mahatma Gandhi started the famous 'Salt March' from Sabarmati to Dandi. In which district of Gujarat is Dandi?
(1) Surat (2) Navsari
(3) Porbandar (4) Kutch
50. In the domain of computers and the internet, what is the full form of URL?
(1) Universal Resource Locator
(2) Uniform Resource Locator
(3) Unique Resource Location
(4) Unique Revoked Location
51. 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.
RAMO : SCPS :: VXMJ : ?
(1) WZPN (2) WQPN
(3) WQZN (4) WPZN
52. If $a^3 - b^3 = 625$, $a^2 - b^2 = 25$ and $a + b = 5$ then the value of $a^2 + ab + b^2$ is:
(1) 125 (2) 5
(3) 25 (4) 150
53. Who among the following was the youngest President of India?
(1) Shri Neelam Sanjiva Reddy
(2) Dr. Rajendra Prasad
(3) Dr. S. Radhakrishnan
(4) Dr. Zakir Hussain
54. The sum of two numbers is 60 and their HCF and LCM are 12 and 72 respectively. The sum of the reciprocal of the two number is:
(1) $\frac{5}{12}$ (2) $\frac{1}{5}$
(3) $\frac{5}{72}$ (4) $\frac{5}{6}$



55. The greatest number that will divide 155, 260, 315 and leave the remainders 5, 10 and 15 respectively is:
 (1) 75 (2) 50
 (3) 10 (4) 25
56. The value of $180 \div (2^3 + 3^2 + 1) + 37 - 20$ equal to:
 (1) 27 (2) 20
 (3) 25 (4) 23
57. The angles of a triangle are $2x^\circ$, $(3x^\circ - 8^\circ)$ and $(5x^\circ - 12^\circ)$. The greatest angle of the triangle is:
 (1) 40° (2) 112°
 (3) 118° (4) 88°
58. The simple interest on a sum of amount for 2 years at 10% per annum is ₹500. The compound interest on the same sum at the same rate for the same time is:
 (1) ₹525 (2) ₹510
 (3) ₹515 (4) ₹520
59. The smallest 5 digit number that leaves a remainder of 6 when divided by 7 is:
 (1) 10003 (2) 10007
 (3) 10002 (4) 10009
60. Who was honoured with the 55th Jnanpith Award for the year 2019?
 (1) Chitra Mudgal
 (2) Shobha Rao
 (3) A Achuthan Namboothiri
 (4) Krishna Sobti
61. In which year was The Environment (Protection) Act passed by the Parliament of India?
 (1) 1990 (2) 1991
 (3) 1986 (4) 1988
62. Which of the following countries is NOT a permanent member of United Nations Security Council?
 (1) China (2) United Kingdom
 (3) Japan (4) France
63. X and Y together can complete a piece of work in 12 days, Y and Z can do it 18 days and X and Z can complete the same work in 15 days. If X, Y and Z can together complete the work, approximately how many days will be required to complete the work?
 (1) 12 (2) 18
 (3) 14 (4) 10
64. Select the option that is related to the third term in the same way as the second term is related to the first term.
 Pediatrics : children :: neurology : ?
 (1) heart (2) eyes
 (3) brain (4) veins
65. In general, the most appropriate average value in measuring central tendency is:
 (1) mode (2) median
 (3) range (4) mean
66. Which of the following shows a symbiotic relationship?
 (1) Funaria (2) Ulothrix
 (3) Marsilea (4) Lichen
67. Which of the following countries is NOT a member of BIMSTEC?
 (1) Maldives (2) India
 (3) Bhutan (4) Nepal
68. The value of $\frac{\sqrt{54} \times \sqrt{125}}{\sqrt{24} \times \sqrt{45}}$ is:
 (1) 4 (2) 2.5
 (3) $2\sqrt{5}$ (4) $4\sqrt{6}$
69. The value of $5\sin 14^\circ \sec 76^\circ + 3\cot 15^\circ \times \cot 75^\circ + 2\tan 45^\circ$ is:
 (1) 0 (2) 10
 (3) 1 (4) 8
70. Which of the following two countries of South America are land locked?
 (1) Chile and Ecuador
 (2) Brazil and Venezuela
 (3) Guyana and Suriname
 (4) Paraguay and Bolivia
71. A class of 50 girls and 70 boys sponsored a musical programme. If 40% of the girls and 50% of the boys attended, approximately what percentage of the class attended the programme?
 (1) 42% (2) 44%
 (3) 46% (4) 48%
72. If all the special characters are dropped from the below arrangement, which of the following will be the 10th to the right of X?
 3 X ! B 9 # F 4 5 * 1 K 2 \$ 8 R S % Z
 (1) 8 (2) R
 (3) S (4) 2
73. Which Sikh guru established the Khalsa Panth?
 (1) Shri Guru Nanak ji
 (2) Shri Guru Har Gobind ji
 (3) Shri Guru Tegh Bahadur ji
 (4) Shri Guru Gobind Singh ji
74. A cylinder has a height of 14 cm and the curved surface area is 528 cm^2 . The volume of the cylinder is:
 (1) 1244 cm^3 (2) 792 cm^3
 (3) 1584 cm^3 (4) 2538 cm^3
75. A rope is divided into three different parts. The first part is $\frac{1}{5}$ of the whole length, the second part is $\frac{3}{2}$ of the first. The third part is what fraction of the rope?
 (1) $\frac{1}{3}$ (2) $\frac{3}{4}$
 (3) $\frac{1}{2}$ (4) $\frac{2}{3}$
76. The value of $5\frac{2}{3} + 0.73 - 3.123$ is equal to:
 (1) 2.55 (2) 3.27
 (3) 3.12 (4) 5.73
77. A train leaves station A towards station B at the speed of 50 km/hr. After half an hour, another train leaves station B towards station A at 150 km/hr. The distance between the stations is 725 km. The distance of the point from station A where the two trains are to meet is:

- (1) 150 km (2) 168 km
(3) 200 km (4) 250 km
78. If the mass of a person is 60 kg on the surface of earth then the same person's mass on the surface of the moon will be:
(1) 360 kg (2) 60 kg
(3) 10 kg (4) 0 kg
79. If $\frac{x}{2} + \frac{2}{y} = 1$ and $\frac{y}{2} + \frac{2}{z} = 1$, then the value of $\frac{z}{2} + \frac{2}{x}$ is:
(1) 0 (2) 1
(3) -1 (4) 2
80. Where is the Central Potato Research Institute of India located?
(1) Ranchi (2) Lucknow
(3) Shimla (4) Delhi
81. In which year did ISRO launch the Mars Orbiter Mission?
(1) 2012 (2) 2015
(3) 2014 (4) 2013
82. What is to be added to 12% of 2400, so that the sum will be equal to 18% of 5400?
(1) 288 (2) 952
(3) 684 (4) 972
83. In a rectangle, the length is twice the breadth and the perimeter of the rectangle is 48 cm. The area of the rectangle is:
(1) 288 cm² (2) 128 cm²
(3) 512 cm² (4) 144 cm²
84. Select the combination of letters that when sequentially placed in the blanks will create a repetitive pattern.
c _ bba _ cab _ ac _ ab _ ac
(1) a; c; b; c; b (2) a; b; c; b; c
(3) b; a; b; c; c (4) b; c; a; c; b
85. If $\sin\theta = \frac{3}{4}$ and $\cos\theta = \frac{5}{4}$, then the value of $\frac{1 + \tan\theta}{1 - \cot\theta}$ is:
(1) $\frac{11}{5}$ (2) $\frac{2}{5}$
(3) $-\frac{12}{5}$ (4) $-\frac{8}{5}$
86. Select the option that is related to the third number in the same way as the second number is related to the first number.
21 : 11 :: 31 : ?
(1) 16 (2) 15
(3) 17 (4) 18
87. Select the number from among the given options that can replace the question mark (?) in the following table.
- | | | |
|----|----|----|
| 28 | 63 | 94 |
| 8 | 18 | ? |
| 6 | 9 | 13 |
- (1) 69 (2) 76
(3) 75 (4) 48
88. P is the brother of Q and R. S is R's mother. T is P's father. Which of the following statements CANNOT be definitely true?
(1) T is S's husband (2) S is P's mother
(3) T is Q's husband (4) T is Q's father
89. From among the given options, select the word which CANNOT be formed using the letters of the given word.
DAUGHTER
(1) HURT (2) GET
(3) TOUGH (4) DATE
90. Four different positions of a cube are shown in the figure. Which of the following colours is on the face opposite to the face that has black written on it?
- 
- (1) Purple (2) Pink
(3) Blue (4) Orange
91. Five students are sitting in a row, Sunil is neither a neighbour of Aastha nor Shyam, Aastha is a neighbour of Shyam and she is on the left end of the row. Sunil is a neighbour of Manjeet, Manjeet is exactly in the middle of the row, and is not a neighbour of Amita. Who are the neighbours of Sunil?
(1) Manjeet and Amita (2) Shyam and Amita
(3) Shyam and Manjeet (4) Aastha and Manjeet
92. Select the number from among the given options that can replace the question mark (?) in the following series.
69, 55, 26, 13, ?
(1) 2 (2) 5
(3) 3 (4) 4
93. Five girls Beena, Leena, Meena, Reena and Teena are playing game. They are sitting in a row facing towards the north. Meena is sitting at the west end and Teena is sitting at the east end. Leena and Reena are sitting together next to each other. Beena is sitting to the left of Leena and to the right of Meena. Who is sitting second from the east end?
(1) Leena (2) Reena
(3) Teena (4) Beena
94. Select the number that can replace the question marks (?) in the following series.
97, 86, 101, 89, 107, ?, ?
(1) 114; 169 (2) 94; 115
(3) 84; 125 (4) 121; 144
95. Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusions logically follow(s) from the statements.

Statements:



All Roses are Red.

Some Red are Colours.

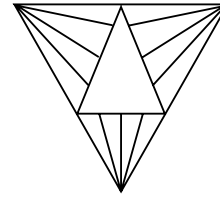
All Colours are Paints.

Conclusions:

I. Some Red are Paints

II. All Red are Roses.

- (1) Neither conclusion I nor II follows.
 (2) Only conclusion I follows.
 (3) Both conclusion I and II follow.
 (4) Only conclusion II follows.
96. Four letter clusters have been given, out of which three are alike in some manner and one is different. Select the odd one.
 (1) IKJL (2) EGFH
 (3) MNPO (4) ACBD
97. Four word-pairs have been given, out of which three are alike in some manner and one is different. Select the odd one.
 (1) Paper : noter (2) Giftr : gift wrap
 (3) Head : cap (4) Hand : glove
98. Find the number of triangles in the diagram given below:



- (1) 30 (2) 31
 (3) 32 (4) 29
99. Select the number that can replace the question mark (?) in the following series.
 5, 10, 17, 26, ?
 (1) 37 (2) 35
 (3) 36 (4) 34
100. The positions of Deepti and Mohan in a row are 14th from the left and 9th from the right respectively. If they interchange their places, then Mohan will be 21st from the right, find the position of Deepti from the left row and the total number of persons in the row.
 (1) 24, 38 (2) 33, 27
 (3) 26, 34 (4) 34, 26

