



2018 - 2023

GENERAL KNOWLEDGE

As per Latest Exam Pattern Issued by UPSC

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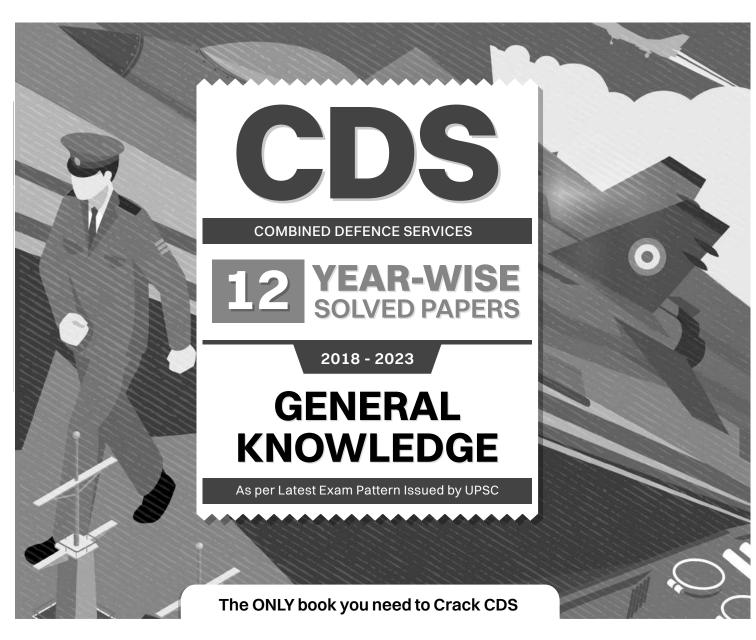
with Tips to crack
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CDS (Combined Defence Services)



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PREFACE

"Some goals are so worthy, it's glorious even to fail"

– Capt. Manoj Kumar Pandey

Union Public Service Commission (UPSC) every year conducts a CDS exam twice a year for candidates who wish to make their career in the defence forces-Army, Navy and Air Force. The Combined Defence Services Examination is conducted for admission to the Indian Military Academy (IMA), Indian Naval Academy (INA), Air Force Academy (AFA), and Officers Training Academy (OTA).

The CDS selection process comprises two stages-written exams and SSB interviews. The final selection of candidates is done based on the performance in both stages. After completing training at IMA, INA, AFA, and OTA, candidates are selected for the post of Lieutenant.

In 2023, Approx. 4.5 Lacs students applied for the CDS examination, the opportunity you get from the Indian Armed Forces is just limitless, which helps in enhancing your personality traits. For a youngster who is aspiring to get a job full of challenges and excitement, then there is no better job than the defence.

This book aims to make aspirants exam-ready, boost their confidence and help them achieve better results in CDS. By making learning Simple, we are also making better careers and a better life for every student. Every day we are moving ahead pursuing our noble cause of spreading knowledge.

This set of solved question papers is designed to enrich students with ample and examoriented practice so that they can clear CDS Examination with extraordinary results. Not one or two but 12 Previous Year Solved Question Paper [2018 to 2023] focussed on polishing every topic. Thorough studying of this book will boost my confidence and familiarise me with exam patterns.

Some benefits of studying from Oswaal CDS 12 Previous year solved question papers:

- ➤ **100% updated** with Fully Solved Paper of April & September 2023.
- Concept Clarity with detailed explanations of 2018 to 2023 Papers.
- **Extensive Practice** with 1500+ Questions and Two Sample Question Papers.
- > Crisp Revision with Mind Maps.
- > Expert Tips helps you get expert knowledge master & crack CDS in first attempt.
- **Exam insights** with 5 Year-wise (2023-2019) Trend Analysis, empowering students to be 100% exam ready.

Our Heartfelt Gratitude

Finally, we would like to thank our authors, editors, and reviewers. Special thanks to our students who send us suggestions and constantly help improve our books. To stay true to our motto of 'Learning Made Simple', we constantly strive to present information in ways that are easy to understand as well as remember.

Happy Learning!

All the Best!

TEAM OSWAAL

I realize what I cannot Control and let the good things flow I courageuosly move in the direction of my dreams

> l am Supported fully by the universe

I allow my desires to flow to me now I am wrapped in the loving energy of the universe

> All of my thoughts are aligned with my desires

Affirmations for the new "YOU"

l effortlessly attract my desires Accept yourself, love yourself, and keep moving forward. If you want to fly, you have to give up what weighs you down.

I am open to new experiences and welcome abundance into my life

When Het go, I create space for something better. I have the power to shift my mindset and see the good in everything.



| Tips to Crack CDS in the First Attempt Syllabus NDA vs CDS: Know All the Similarities Difference Trend Analysis from (2023-2019) Solved Paper - 2023 - I Solved Paper - 2023 - II | 6 - 6 7 - 7 8 - 13 14 - 14 17 - 47 48 - 71 |
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Tips to Crack Combined Defence Services (CDS) in the First Attempt

The CDS Exam is conducted by the Union Public Service Commission or UPSC for recruitment of commissioned officers in the Indian Military Academy, Officers Training Academy, Indian Naval Academy & Indian Airforce Academy. CDS is recognised as one of the reputed National level Examinations in India. Cracking the CDS Exam in the very first attempt, given the difficulty level, can be a laborious task but is quite attainable if done diligently as well as smartly. Here are some tips that you must follow by heart to crack the exam in the very first attempt:

Think Right

Calming yourself and thinking positive is the first and the best course of action that one is required to take. Think and believe that the exam goal is achievable if worked upon smartly.

Start studying from the beginning

All the aspirants are aware of how vast, comprehensive and detailed the syllabus of the CDS exam is. To crack the exam in the first attempt you have to start preparing for the exam from the beginning of your 10th class. It is only then that you will be able to complete the entire syllabus. Following this approach will also allow you plenty of time to revise.

Respect the syllabus and arrange the materials accordingly

While preparing for the CDS exam nothing can be labelled as less important. Questions can come from the most unexpected topics too. Laying down your whole syllabus in front of you will help you to decide on the study material you require.

Get the right tools and study material

Gathering and preparing from the appropriate study material is something you cannot be ignorant towards. You can refer to Oswaal Books CDS Year-wise 12 Solved Papers along with Question Banks to enhance your preparation. Both the reference books are on the lines of the current syllabus and can be entrusted upon before the examination.

Schedule total time for each subject

Creating a schedule which gives due time to all the subjects is a must. Giving proper time to all the subjects daily will help you cover the syllabus on time, giving you enough time for revision.

Understand the concepts

No one can crack the CDS exam just by mugging up all the concepts and topics. The syllabus of the exam is in-depth such that you need to understand every concept.

Practice a lot of Sample Papers

Year-wise Solved Papers will not only help you in understanding the examination pattern, but they will also help you in figuring out the questions that come up every year and this might give you an edge over other students. You can refer to Oswaal CDS Question Bank, as they include all the typologies of Questions asked in the Examination, Previous Years Papers with solutions, Mind Maps, etc. Referring to various sample papers might also help you in comprehending the areas which require more work.

Revise whenever you get time
Make sure you revise as much as possible. The

revision will help you in keeping the concepts fresh in your mind.

Analysing your performance

While you are solving papers, make sure you keep a track of time i.e. how much time does it take to solve one section or one question? Make a report of the sections and type of questions which take minimum and maximum time.

Syllabus

This paper has been divided into 12 sections to understand the complications of the General Knowledge syllabus.

| Economics | Physics | Current Affairs |
|-----------|------------------------------|---------------------------|
| Chemistry | Sociology | Modern & Medieval History |
| Geography | Environment and Biodiversity | Polity and Governance |
| Biology | Miscellaneous | Defence-related |

CDS 2022 General Knowledge – General Information

- The total marks of this paper are **100 marks** consisting of **120 questions**.
- Candidates will get 2 hours to complete this paper.
- Each question carries **0.83 marks**.
- For each wrong answer, there will a deduction of **-0.27 marks**.
- Questions will be asked in both English and Hindi.

CDS General Knowledge: Expected Number of Questions & Difficulty Level

| Topics | Number of Questions | Difficulty Level |
|-----------------|---------------------|-----------------------|
| History | 23 - 18 | Moderate |
| Geography | 15 - 17 | Moderate to Difficult |
| Polity | 13 - 17 | Moderate |
| Economy | 12 - 14 | Moderate |
| Current Affairs | 20 - 23 | Easy to Moderate |
| Physics | 8 - 10 | Moderate to Difficult |
| Chemistry | 8 - 10 | Moderate |
| Biology | 9 - 10 | Moderate |
| Defence News | 9 - 11 | Moderate |
| Static GK | 15 - 17 | Easy to Moderate |



NDA vs CDS: Know All the Similarities & Differences

The National Defence Academy (NDA) and the Combined Defence Services (CDS) Exams are gateways to the Indian Armed Forces. Though both the exams are conducted by the Union Public Service Commission, i.e. UPSC, there are many similarities and differences in the recruitment, training, salary, perks and promotion opportunities, etc.

For those who are planning to join Indian Army, Navy or Air Force, it is essential to know the differences and similarities in NDA and CDS. The similarities are given below:

| Parameter | NDA | CDS |
|----------------------------------|---|--|
| Age | 16.5-19.5 Years | 19-25 Years |
| Eligibility | Men only | Men & Women |
| Educational Qualification | 10+2 | Degree |
| Scheme of Examination | Written + SSB | Written + SSB |
| Frequency of the Exam | Twice/Year | Twice/Year |
| Duration of Training | 4-4.5 Years 3 Yrs. at NDA and 1 Yr. at IMA (For Army cadets) 3 Yrs. at NDA and 1 Yr. at Naval Academy (For Naval cadets)/ 3 Yrs. at NDA and 1 & 1/2 Yrs. at AFA Hyderabad (For AF cadets) | |
| Training Centres | National Defence Academy, Khadakwa- sla, Pune Indian Military Academy, Deh- radun Indian Naval Academy, Ezhimala Indian Air Force Academy, Hyderabad | Indian Military Academy (IMA), Dehradun for Army Cadets Indian Naval Academy, Ezhimala for Navy Cadets Indian Air Force Academy, Hyderabad for Air Force Officers Officers Training Academy (OTA), Chennai |
| Degrees awarded | Army Cadets - B.Sc./B.Sc. (Computer)/BA/B.Tech. degree Naval Cadets - B.Tech. degree Air Force Cadets - B.Tech. degree | Army Cadets in IMA - PG Diploma in 'Military and Defence Management OTA Chennai - Post Graduate Diploma in Defence Management and Strategic Studies |
| Rank assigned after training | Lieutenant | Lieutenant |
| Stipend during training | Rs. 21,000/- p.m. (fixed) | Rs. 21,000/- p.m. (fixed) |

Promotional Avenues

| Rank | Min. Commissioned Service for Promotion | | | |
|----------------------|---|-----------------|--|--|
| | NDA Officer | CDS Officer | | |
| Lieutenant | On Commission | On Commission | | |
| Captain | 02 Years | 02 Years | | |
| Major | 06 years | 06 years | | |
| Lieutenant Colonel | 13 years | 13 years | | |
| Colonel(Selection) | 15 years | 15 years | | |
| Colonel (Time Scale) | 26 years | 26 years | | |
| Brigadier | On Selection | 23 years | | |
| Major General | On Selection | 25 years | | |
| Lieutenant General | On Selection | 28 years | | |
| General | On Selection | No restrictions | | |



APPENDIX-I

A. SCHEME OF EXAMINATION

- 1. The Competitive examination comprises:
- (a) Written examination as shown in para 2 below.
- (b) Interview for intelligence and personality test (vide Part 'B' of this Appendix) of such candidates as may be called for interview at one of the Services Selection Centres.
- 2. The subjects of the written examination, the time allowed and the maximum marks allotted to each subject will be as follows:
- (a) For Admission to Indian Military Academy, Indian Naval Academy and Air Force Academy:—

| Subject | Duration | Maximum Marks | | |
|---------------------------|----------|----------------------|--|--|
| 1. English | 2 Hours | 100 | | |
| 2. General Knowledge | 2 Hours | 100 | | |
| 3. Elementary Mathematics | 2 Hours | 100 | | |

(b) For Admission to Officers' Training Academy:—

| Subject | Duration | Maximum Marks |
|----------------------|----------|---------------|
| 1. English | 2 Hours | 100 |
| 2. General Knowledge | 2 Hours | 100 |

The maximum marks allotted to the written examination and to the interviews will be equal for each course i.e. the maximum marks allotted to the written examination and to the interviews will be 300, 300, 300 and 200 each for admission to the Indian Military Academy, Indian Naval Academy, Air Force Academy and Officers' Training Academy respectively.

- The papers in all the subjects will consist of objective type questions only. The question papers (Test Booklets) of General Knowledge and Elementary Mathematics will be set bilingually in Hindi as well as English.
- 4. In the question papers, wherever necessary, questions involving the metric system of Weights and Measures only will be set.
- 5. Candidates must write the papers in their own hand. In no circumstances will they be allowed the help of a scribe to write answers for them.
- 6. The Commission have discretion to fix qualifying marks in any or all the subjects of the examination.
- 7. The candidates are not permitted to use calculator for answering objective type papers (Test Booklets). They should not therefore, bring the same inside the Examination Hall.

Height requirement varies as per the stream of entry. Weight should be proportionate to height as per the chart given below:-

| Age (yrs) | Minimum weight | Age: 17 to Age: 20 + | | Age: 30 + | Age: |
|-------------|----------------|----------------------|-----------------|-----------------|--------------|
| | for all ages | 20 yrs | 01 day - 30 yrs | 01 Day - 40 yrs | Above 40 yrs |
| Height (cm) | Weight (Kg) | Weight (Kg) | Weight (Kg) | Weight (Kg) | Weight (Kg) |
| 140 | 35.3 | 43.1 | 45.1 | 47.0 | 49.0 |
| 141 | 35.8 | 43.7 | 45.7 | 47.7 | 49.7 |
| 142 | 36.3 | 44.4 | 46.4 | 48.4 | 50.4 |
| 143 | 36.8 | 45.0 | 47.0 | 49.1 | 51.1 |
| 144 | 37.3 | 45.6 | 47.7 | 49.8 | 51.8 |
| 145 | 37.8 | 46.3 | 48.4 | 50.5 | 52.6 |
| 146 | 38.4 | 46.9 | 49.0 | 51.2 | 53.3 |
| 147 | 38.9 | 47.5 | 49.7 | 51.9 | 54.0 |
| 148 | 39.4 | 48.2 | 50.4 | 52.6 | 54.8 |
| 149 | 40.0 | 48.8 | 51.1 | 53.3 | 55.5 |
| 150 | 40.5 | 49.5 | 51.8 | 54.0 | 56.3 |
| 151 | 41.0 | 50.2 | 52.4 | 54.7 | 57.0 |
| 152 | 41.6 | 50.8 | 53.1 | 55.4 | 57.8 |
| 153 | 42.1 | 51.5 | 53.8 | 56.2 | 58.5 |
| 154 | 42.7 | 52.2 | 54.5 | 56.9 | 59.3 |
| 155 | 43.2 | 52.9 | 55.3 | 57.7 | 60.1 |
| 156 | 43.8 | 53.5 | 56.0 | 58.4 | 60.8 |
| 157 | 44.4 | 54.2 | 56.7 | 59.2 | 61.6 |
| 158 | 44.9 | 54.9 | 57.4 | 59.9 | 62.4 |
| 159 | | 55.6 | 58.1 | 60.7 | 63.2 |
| 160 | | 56.3 | 58.9 | 61.4 | 64.0 |
| 161 | 46.7 | 57.0 | 59.6 | 62.2 | 64.8 |
| 162 | 47.2 | 57.7 | 60.4 | 63.0 | 65.6 |
| 163 | 47.8 | 58.5 | 61.1 | 63.8 | 66.4 |
| 164 | 48.4 | 59.2 | 61.9 | 64.6 | 67.2 |
| 165 | 49.0 | 59.9 | 62.6 | 65.3 | 68.1 |
| 166 | 49.6 | 60.6 | 63.4 | 66.1 | 68.9 |
| 167 | 50.2 | 61.4 | 64.1 | 66.9 | 69.7 |
| 168 | 50.8 | 62.1 | 64.9 | 67.7 | 70.6 |
| 169 | 51.4 | 62.8 | 65.7 | 68.5 | 71.4 |
| 170 | 52.0 | 63.6 | 66.5 | 69.4 | 72.3 |
| 171 | 52.6 | 64.3 | 67.3 | 70.2 | 73.1 |
| 172 | 53.3 | 65.1 | 68.0 | 71.0 | 74.0 |
| 173 | 53.9 | 65.8 | 68.8 | 71.8 | 74.8 |
| 174 | 54.5 | 66.6 | 69.6 | 72.7 | 75.7 |
| 175 | 55.1 | 67.4 | 70.4 | 73.5 | 76.6 |
| 176 | 55.8 | 68.1 | 71.2 | 74.3 | 77.4 |
| 177 | 56.4 | 68.9 | 72.1 | 75.2 | 78.3 |
| 178 | 57.0 | 69.7 | 72.9 | 76.0 | 79.2 |
| 179 | 57.7 | 70.5 | 73.7 | 76.9 | 80.1 |

| Age (yrs) | Minimum weight for all ages | Age: 17 to 20 yrs | Age: 20 + 01 day - 30 yrs | Age : 30 + 01 Day - 40 yrs | Age: Above 40 yrs |
|-------------|-----------------------------|----------------------|---------------------------|----------------------------|----------------------|
| Height (cm) | Weight (Kg) | Weight (Kg) | Weight (Kg) | Weight (Kg) | Weight (Kg) |
| 180 | 58.3 | 71.3 | 74.5 | 77.8 | 81.0 |
| 181 | 59.0 | 72.1 | 75.4 | 78.6 | 81.9 |
| 182 | 59.6 | 72.9 | 76.2 | 79.5 | 82.8 |
| 183 | 60.3 | 73.7 | 77.0 | 80.4 | 83.7 |
| 184 | 60.9 | 74.5 | 77.9 | 81.3 | 84.6 |
| 185 | 61.6 | 75.3 | 78.7 | 82.1 | 85.6 |
| 186 | 62.3 | 76.1 | 79.6 | 83.0 | 86.5 |
| 187 | 62.9 | 76.9 | 80.4 | 83.9 | 87.4 |
| 188 | 63.6 | 77.8 | 81.3 | 84.8 | 88.4 |
| 189 | 64.3 | 78.6 | 82.2 | 85.7 | 89.3 |
| 190 | 65.0 | 79.4 | 83.0 | 86.6 | 90.3 |
| 191 | 65.7 | 80.3 | 83.9 | 87.6 | 91.2 |
| 192 | 66.4 | 81.1 | 84.8 | 88.5 | 92.2 |
| 193 | 67.0 | 81.9 | 85.7 | 89.4 | 93.1 |
| 194 | 67.7 | 82.8 | 86.6 | 90.3 | 94.1 |
| 195 | 68.4 | 83.7 | 87.5 | 91.3 | 95.1 |
| 196 | 69.1 | 84.5 | 88.4 | 92.2 | 96.0 |
| 197 | 69.9 | 85.4 | 89.3 | 93.1 | 97.0 |
| 198 | 70.6 | 86.2 | 90.2 | 94.1 | 98.0 |
| 199 | 71.3 | 87.1 | 91.1 | 95.0 | 99.0 |
| 200 | 72.0 | 88.0 | 92.0 | 96.0 | 100.0 |
| 201 | 72.7 | 88.9 | 92.9 | 97.0 | 101.0 |
| 202 | 73.4 | 89.8 | 93.8 | 97.9 | 102.0 |
| 203 | 74.2 | 90.7 | 94.8 | 98.9 | 103.0 |
| 204 | 74.9 | 91.6 | 95.7 | 99.9 | 104.0 |
| 205 | 75.6 | 92.5 | 96.7 | 100.9 | 105.1 |
| 206 | 76.4 | 93.4 | 97.6 | 101.8 | 106.1 |
| 207 | 77.1 | 94.3 | 98.6 | 102.8 | 107.1 |
| 208 | 77.9 | 95.2 | 99.5 | 103.8 | 108.2 |
| 209 | 78.6 | 96.1 | 100.5 | 104.8 | 109.2 |
| 210 | 79.4 | 97.0 | 101.4 | 105.8 | 110.3 |

⁽a) Weight for height charts given above is for all categories of personnel. This chart is prepared based on the BMI. The chart specifies the minimum acceptable weight that candidates of a particular height must have. Weights below the minimum specified will not be acceptable in any case. The maximum acceptable weight of height has been specified in age wise categories. Weights higher than the acceptable limit will be acceptable only in the case of candidates with documented evidence of body building, wrestling, and boxing at the National level. In such cases the following criteria will have to be met.

- (i) Body Mass Index should be below 25.
- (ii) Waist Circumference should be less than 90 cm for males and 80 cm for females.
- (iii) All biochemical metabolic parameters should be within normal limits. Note: The height and weight for candidates below 17 yrs will be followed as per guidelines by 'Indian Academy of Paediatrics growth charts for height, weight and BMI for 05 yrs to 16 yrs old children'.
- (b) The minimum height required for male candidates for entry into the Armed Forces is 157 cm or as decided by the respective recruiting agency. Gorkhas and candidates belonging to Hills of North Eastern region of India, Garhwal and Kumaon, will be accepted with a minimum height of 152 cm.

- (c) The minimum height required for female candidates for entry into the Armed Forces is 152 cm. Gorkhas and candidates belonging to Hills of North Eastern region of India, Garhwal and Kumaon will be accepted with a minimum height of 148 cm. Note: An allowance for growth of 02 cm will be made for both male and female candidates below 18 years of age at the time of examination. The minimum height requirement for the Flying Branch is 163 cm. Anthropometric standards like sitting height, leg length and thigh length are also required by the flying Branch.
- 8. Following investigations will be carried out for all officer entries and for pre-commission training academies. However examining medical officer/ medical board may ask for any other investigation deemed fit.
 - (a) Complete haemogram
 - (b) Urine RE
 - (c) Chest X-ray
 - (d) USG abdomen and Pelvis.
- 9. Certain standards vary depending on age and type entry viz stds for vision as follows:-

| Parameter | | Graduate & equivalent entries: CDSE, IMA, OTA, UES, NCC,TGC & equivalent | equivalent entries: JAG, |
|--|--|---|--------------------------|
| Uncorrected vision | 6/36 & 6/36 | 6/60 &6/60 | 3/60 & 3/60 |
| (max allowed) | | | |
| BCVA | Rt 6/6 & Lt 6/6 | Rt 6/6 & Lt 6/6 | Rt 6/6 & Lt 6/6 |
| Myopia | 1 \ | < -3.50 D Sph (including max astigmatism ≤ +/- 2.0 D Cyl) | 1 \ |
| Hypermetropia | <+2.5 D Sph, (including max astigmatism ≤ +/- 2.0 D Cyl) | 1 ' | 1 |
| Lasik/equivalent surgery Not permitted | | Permitted* | Permitted* |
| Colour perception | CP-II | CP-II | CP-II |

*LASIK or Equivalent kerato-refractive procedure

- (a) Any candidate who has undergone any kerato-refractive procedure will have a certificate from the centre where he/she has undergone the procedure, specifying the date and type of surgery.
- (b) In order to be made FIT, the following criteria will have to be met:
 - (i) Age more than 20 yrs at the time of surgery
 - (ii) Minimum 12 months post LASIK
 - (iii) Central corneal thickness equal to or more than 450 μ
 - (iv) Axial length by IOL Master equal to or less than 26 mm
 - (v) Residual refraction of less than or equal to \pm 1.0 D incl cylinder, (provided acceptable in the category applied for).
 - (vi) Normal healthy retina.
 - (vii) Corneal topography and ectasia markers can also be included as addl criteria.

Trend Analysis 2019 to 2023

| Culturate | 2023 | 2022 | | 2021 | | 2021 | | 202 | 20 | 20 | 19 |
|------------------|------|------|-----|------|-----|------|-----|-----|-----|----|----|
| Subjects | I | I | II | I | II | I | II | I | II | | |
| Chemistry | 11 | 9 | 9 | 11 | 11 | 13 | 9 | 13 | 13 | | |
| Physics | 10 | 11 | 10 | 11 | 10 | 10 | 11 | 5 | 8 | | |
| Biology | 8 | 13 | 9 | 9 | 9 | 11 | 10 | 9 | 10 | | |
| Polity | 10 | 17 | 11 | 15 | 16 | 14 | 16 | 30 | 21 | | |
| Geography | 13 | 10 | 16 | 14 | 16 | 11 | 11 | 14 | 14 | | |
| Modern History | 10 | 11 | 4 | 16 | 9 | 9 | 14 | 11 | 9 | | |
| Medieval History | 6 | 9 | 9 | 5 | 9 | 6 | 4 | 2 | 7 | | |
| Current Affairs | 22 | 13 | 23 | 17 | 21 | 18 | 27 | 20 | 18 | | |
| Static GK | 16 | 17 | 17 | 12 | 13 | 18 | 14 | 6 | 16 | | |
| Economic | 14 | 10 | 10 | 10 | 6 | 10 | 4 | 10 | 4 | | |
| Total | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | 120 | | |

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General Knowledge

Time Allowed: 2 Hours M. : 100

Instructions

- 1. This Test Booklet contains **120** items (questions). Each item comprises four responses (answers). You will select the response which you want to mark on the Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
- 2. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet.
- 3. *All* items carry equal marks.
- 4. Penalty for wrong answers:
 - THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE IN THE OBJECTIVE TYPE QUESTION PAPERS.
 - (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, **one-third** of the marks assigned to that question will be deducted as penalty.
 - (ii) If a candidate gives more than one answer, it will be treated as a **wrong answer** even if one of the given answers happens to be correct and there will be same penalty as above to that question.
 - (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be **no penalty** for that question.
- **1.** A sprinter feels cramps and pain in the thigh muscles after a run. This is due to accumulation of
 - (a) lactic acid
- (b) CO₂
- (c) pyruvic acid
- (d) ethanol
- 2. A leaf was plucked from a plant on a sunny day and kept for 2 minutes in boiling water. It was subsequently immersed in boiling alcohol and treated with iodine solution. What will be the final colour of the leaf after the test?
 - (a) Colourless
- (b) Green
- (c) Blue
- (d) White
- 3. If the red blood cells (RBCs) of human blood are isolated and are diluted in normal saline (an isotonic solution to blood), what will happen to the RBCs?
 - (a) The RBCs will swell
 - (b) The RBCs will swell and burst
 - (c) The RBCs will shrink
 - (d) No change in the diameters of the RBCs
- **4.** Which one of the following statements regarding bile secreted by liver is **not** correct?
 - (a) Bile contains enzymes for digestion of lipids.
 - **(b)** Bile facilitates emulsification of fats.

- **(c)** Bile neutralizes the acidic pH of the food coming from stomach.
- (d) Bile makes the pH of the food alkaline and facilitates action of pancreatic enzymes.
- 5. The blood pressure of a normal human being is found to be 120/80 mmHg. These 'numbers' represent the blood pressure at
 - (a) ventricular contraction and ventricular relaxation, respectively
 - **(b)** ventricular relaxation and ventricular contraction, respectively
 - (c) auricular contraction and auricular relaxation, respectively
 - (d) ventricular contraction and auricular contraction, respectively
- **6.** A person burned a firecracker in front of a cliff and heard its echo 5 s after it burst. The distance of the cliff from the person, if the speed of the sound is 340 m/s, is close to
 - (a) 1700 m
- **(b)** 170 m
- (c) 85 m
- (d) 850 m
- **7.** Consider the following statements about the microphone and the speaker of a mobile phone:

- **1.** The microphone converts sound to a mechanical signal.
- **2.** The microphone converts sound to an electrical signal.
- **3.** The speaker converts a mechanical signal to sound.
- **4.** The speaker converts an electrical signal to sound.

Which of the statements given above are correct?

- (a) 1 and 3
- **(b)** 1 and 4
- (c) 2 and 3
- (d) 2 and 4
- **8.** A 100 W electric bulb is used for 10 hours a day. How many units of electrical energy are consumed by the bulb in 3 days? (1 unit = 1 kWh)
 - (a) 3.00
- **(b)** 1.08
- (c) 2.16
- (d) 0.33
- **9.** The area under the velocity-time graph for a particle moving in a straight line with uniform acceleration gives
 - (a) its average velocity
 - (b) its net displacement
 - (c) the distance travelled by it
 - (d) its average speed
- 10. The power of a lens of focal length 10 cm is
 - (a) 0.1 dioptre
- (b) 1 dioptre
- (c) 10 dioptre
- (d) 100 dioptre
- **11.** Consider the following statements regarding burning of magnesium ribbon in air :
 - 1. White powder of MgO is formed.
 - **2.** It is an example of combustion reaction.
 - 3. Heat and light are produced.

Which of the statements given above are correct?

- (a) 1 and 2 only
- **(b)** 1 and 3 only
- (c) 2 and 3 only
- (d) 1, 2 and 3
- **12.** Which of the following statements with regard to the reaction given below are correct?

$$CaO(s) + H_2O(l) \rightarrow Ca(OH)_2(aq) + Heat$$

 Quicklime is used for white-washing of walls.

- The solution of slaked lime is used for whitewashing of walls.
- CaO reacts slowly with CO₂ in air to form a thin layer of CaCO₃ on walls.
- **4.** Calcium hydroxide called 'slaked lime' is an inorganic compound.

Select the correct answer using the code given below.

- (a) 1 and 4 only
- (b) 2 and 4
- (c) 2 and 3
- (d) 1, 3 and 4
- **13.** Which of the following statements with regard to heating of lead nitrate powder over a flame are correct?
 - 1. Brown fumes of NO are released.
 - 2. Colourless O₂ gas is released.
 - 3. It is an example of oxidation reaction.
 - 4. It is an example of thermal decomposition used for the production of NO₂ gas.

Select the correct answer using the code given below.

- (a) 1 and 2
- **(b)** 2, 3 and 4
- (c) 1, 3 and 4
- (d) 2 and 4 only
- **14.** Which one of the following is *not* an oxidation reaction?
 - (a) Rusting of iron
 - (b) Opening of soda bottle
 - (c) Rancidity
 - (d) Combustion
- **15.** Consider the following clues about a State of India:
 - 1. It is known as land of red river and blue hills'.
 - 2. It contains three of the six physiographic divisions of India.
 - 3. It covers about 2.39 percent of total areas of the country.

Identify the State on the basis of the given clues.

- (a) Karnataka
- (b) Andhra Pradesh
- (c) Assam
- (d) Chhattisgarh
- **16.** Which of the following sets of States shares boundary with Telangana?
 - (a) Odisha, Andhra Pradesh, Karnataka, Maharashtra

- (b) Chhattisgarh, Andhra Pradesh, Karnataka, Madhya Pradesh
- (c) Odisha, Andhra Pradesh, Karnataka, Madhya Pradesh
- (d) Chhattisgarh, Andhra Pradesh, Karnataka, Maharashtra
- 17. Rani told her friends that last year she did boating in four different lakes, namely, Loktak, Barapani, Kolleru and Pulicat. Which of the following States did she visit?
 - (a) Manipur, Meghalaya, Kerala, Tamil Nadu
 - **(b)** Manipur, Meghalaya, Andhra Pradesh, Tamil Nadu
 - (c) Mizoram, Assam, Kerala, Tamil Nadu
 - (d) Mizoram, Assam, Andhra Pradesh, Tamil Nadu
- **18.** According to the Census 2011, which of the following statements is/are correct?
 - 1. A person who can only read but cannot write, is not literate.
 - 2. A person aged seven years and above, who can both read and write with understanding in any language is treated as literate.

Select the correct answer using the code given below.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **19.** The Tropic of Cancer passes through how many coastal and landlocked States of India, respectively?
 - (a) 1 and 7
- (b) 2 and 6
- (c) 2 and 5
- (d) 3 and 5
- **20.** Which one of the following situations can lead to inflation?
 - (a) Rapid growth of aggregate demand outweighing supply
 - (b) Sluggish growth of aggregate demand
 - (c) Reduction in the money supply
 - (d) Higher levels of unemployment

- **21.** Which of the following policies help to raise interest rate unambiguously and thereby lead to appreciation of currency?
 - (a) Expansionary fiscal and monetary policy
 - **(b)** Contractionary fiscal and monetary policy
 - (c) Contractionary fiscal policy and expansionary monetary policy
 - **(d)** Contractionary monetary policy and expansionary fiscal policy
- **22.** The contraction of private investment spending due to deficit spending by the Government is called
 - (a) crowding out
- (b) crowding in
- (c) pump priming
- (d) dumping
- **23.** Which among the following is/are the objective/ objectives of the NITI Aayog?
 - 1. Imposing policies on the States/UTs
 - 2. Allocation of funds at National and State levels
 - 3. Design strategies and long-term policies and programme frame-works

- (a) 1 and 2 only
- **(b)** 2 and 3 only
- (c) 1, 2 and 3
- (d) 3 only
- **24.** The computation of poverty in terms of Monthly Per Capita Consumption Expenditure (MPCE) based on the Mixed Reference Period was recommended by the
 - (a) Lakdawala Committee
 - (b) Tendulkar Committee
 - (c) Dandekar Committee
 - (d) Alagh Committee
- **25.** Which of the following is/are the sub-mission/ sub-missions of the National Skill Development Mission (NSDM)?
 - 1. Institutional training
 - 2. Overseas employment
 - 3. Leveraging of public infrastructure Select the correct answer using the code given below.
 - (a) 1 only
- **(b)** 2 only
- (c) 1, 2 and 3
- (d) 2 and 3 only

- **26.** Which of the following strategies is/are adopted for implementing the POSHAN Abhiyaan?
 - 1. Inter-sectoral convergence for better service delivery
 - 2. Use of technology (ICT) for real-time growth monitoring of women and children Select the correct answer using the code given below.
 - (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **27.** Which of the following conditions is/are necessary for the issue of a writ of certiorari in India?
 - 1. There should be a tribunal or an officer having legal authority to determine questions affecting rights of subjects and having a duty to act judicially.
 - 2. Such tribunal or officer has acted without jurisdiction.

Select the correct answer using the code given below.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **28.** Who among the following Chief Justices of India ordered the constitution of a Special Bench called 'Social Justice Bench'?
 - (a) Justice H. L. Dattu
 - (b) Justice K. G. Balakrishnan
 - (c) Justice R. M. Lodha
 - (d) Justice Y. K. Sabharwal
- **29.** Who among the following is the author of the book, Bandi Jivan?
 - (a) Rash Behari Bose
 - (b) Veer Savarkar
 - (c) Aruna Asaf Ali
 - (d) Sachindranath Sanyal
- **30.** In the election held in 1937, in which two provinces was the Indian National Congress not able to emerge as the single largest party?
 - (a) Punjab and Sind
 - **(b)** Assam and North-West Frontier Province
 - (c) Punjab and Assam
 - (d) Assam and Madras

31. Consider the following statements :

After forming the Indian National Army, Subhas Chandra Bose

- recruited a large number of soldiers from the Indian Prisoners of War in Japanese camp
- 2. introduced a women's detachment named after the Rani of Jhansi

Which of the statements given above is/are correct?

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **32.** Which one of the following pairs denoting various forms of 'Bhakti' is *not* correctly matched?
 - (a) Saguna : Belief in Gods with attributes
 - **(b)** Nirguna: Belief in Gods without attributes
 - (c) Alvars : Believed in devotion of Shakti
 - (d) Nayanars: Believed in devotion of Shiva
- **33.** Which two rivers flow in the region between Gulbarga and Vijayanagara Hampi?
 - (a) Narmada and Godavari
 - (b) Mahanadi and Godavari
 - (c) Kaveri and Periyar
 - (d) Krishna and Tungabhadra
- **34.** Which of the following is the only paramilitary force with a dual control structure?
 - (a) Central Reserve Police Force
 - (b) Assam Rifles
 - (c) Indo-Tibetan Border Police
 - (d) Central Industrial Security Force
- **35.** Which one of the following is an ethnic community of Assam?
 - (a) Bhil
- (b) Gond
- (c) Ahom
- (d) Adi
- **36.** The Chevrons is the name of the cricket team of which one of the following countries?
 - (a) Australia
- (b) The Netherlands
- (c) Ireland
- (d) Zimbabwe
- **37.** Cheetahs, brought from Namibia, were introduced in India to which one of the following National Parks?

- (a) Kaziranga National Park
- (b) Keoladeo Ghana National Park
- (c) Keibul Lamjao National Park
- (d) Kuno National Park
- **38.** Who among the following is *not* a recipient of the Nobel Prize in Physics in 2022?
 - (a) Alain Aspect
 - (b) John F. Clauser
 - (c) Klaus Hasselmann
 - (d) Anton Zeilinger
- **39.** Reflex arcs are evolved in animals for quick and efficient responses. Which one of the following sequences correctly represents a reflex arc?
 - (a) Receptor—Sensory neuron—Relay neuron in spinal cord—Brain— Motor neuron—Effector
 - (b) Receptor—Sensory neuron—Brain Relay neuron in spinal cord —Motor neuron—Effector
 - (c) Receptor—Motor neuron—Relay neuron in spinal cord—Sensory neuron—Effector
 - **(d)** Receptor—Motor neuron—Brain Sensory neuron—Effector
- **40.** Which one of the following is essential for thyroid gland to make thyroxin?
 - (a) NaCl
- (b) KC1
- (c) Cholesterol
- (d) Iodine
- **41.** In plant cells, RNA is present in
 - (a) cytoplasm only
 - (b) nuclei and cytoplasm only
 - (c) nuclei, cytoplasm, mitochondria, chloroplast and endoplasmic reticulum
 - (d) nuclei, cytoplasm, mitochondria, chloroplast and ribosomes
- **42.** In grasses, intercalary meristem is usually located at
 - (a) root tip
 - (b) lateral sides of stem
 - (c) base of leaves
 - (d) shoot tip

- **43.** Xylem is a type of complex tissue in plants for upward conduction of water. Which one of the following xylem tissues consists of living cells?
 - (a) Tracheid
 - (b) Vessel
 - (c) Xylem parenchyma
 - (d) Xylem fibre
- **44.** Three resistors of resistances 11 Ω , 22 Ω and 33 Ω are connected in parallel. Their equivalent resistance is equal to
 - (a) 66Ω
- (b) 22Ω
- (c) 12Ω
- (d) 6 Ω
- **45.** The r.m.s. potential difference between the red live wire and black neutral wire in Indian domestic electric supply is
 - (a) 160 V
- **(b)** 220 V
- (c) 300 V
- (d) 410 V
- **46.** The hydrogen bomb and the uranium bomb are based, respectively on
 - (a) nuclear fusion and fission
 - (b) fission and thermonuclear fusion
 - (c) geothermal fission and fusion
 - (d) geothermal fusion and fission
- 47. Sound and light waves are
 - (a) respectively longitudinal and transverse in air
 - **(b)** respectively transverse and longitudinal in air
 - (c) both longitudinal in air
 - (d) both transverse in air
- **48.** A car moving with a speed of 12 m/s is subjected to brakes which produces a deceleration of n/l s². The car takes 2 s to stop after the application of brakes. What is the distance covered by the car after the application of brakes?
 - (a) 12 m
- **(b)** 24 m
- (c) 36 m
- (d) 48 m
- **49.** What is the chemical composition of a sodaacid type fire extinguisher?
 - (a) Solution of sodium hydrogen carbonate and sulfuric acid

- **(b)** Solution of sodium carbonate and sulfuric acid
- **(c)** Solution of carbon dioxide and sulfuric acid
- **(d)** Solution of sodium chloride and sulfuric acid
- **50.** Consider the following statements :

While diluting concentrated nitric acid solution

- 1. the concentration of [H₃O⁺] ions/ volume increases
- 2. water must be added slowly to concentrated acid
- 3. acid must be added slowly to water Which of the statements given above is/are correct?
- (a) 1, 2 and 3
- **(b)** 1 and 2 only
- (c) 3 only
- (d) 2 and 3 only
- **51.** Which one of the following is the correct order of pH for the given substances?
 - (a) Coffee < Lemon juice < Milk of magnesia < Blood
 - **(b)** Milk of magnesia < Blood < Coffee < Lemon juice
 - (c) Lemon juice < Blood < Coffee < Milk of magnesia
 - **(d)** Lemon juice < Coffee < Blood < Milk of magnesia
- **52.** Which one of the following is not true for anodizing process?
 - (a) It makes aluminium corrosion resistant.
 - **(b)** Metals like aluminium, titanium and magnesium can be anodized.
 - (c) Clean aluminium article is the anode and oxygen gas is evolved at the cathode.
 - (d) It is used in aircraft industry.
- **53.** Naphthalene burns with a yellow sooty flame. This is because
 - (a) carbon to hydrogen ratio is low
 - **(b)** there is incomplete combustion
 - (c) there is excess supply of air
 - (d) of presence of impurities of nitrogen and sulfur

- **54.** Which of the following statements are true for the reaction of Fe₂O₃ with aluminium?
 - 1. It is known as the 'thermite reaction'.
 - 2. The heat evolved is used for welding purpose.
 - 3. Aluminium metal acts as an oxidizing agent.
 - 4. Molten Fe and Al are formed at the end of the reaction.

- (a) 1 and 2
- **(b)** 1 and 3
- (c) 2 and 4
- (d) 1 and 4
- 55. Vicky told his friends about his visit to Stewart Island, Bay of Plenty and Hawke Bay. Which country did Vicky visit?
 - (a) Canada
- (b) Australia
- (c) New Zealand
- (d) Ireland
- **56.** Manav is planning to visit all UNESCO World Heritage Sites in Delhi. He will be visiting
 - (a) Red Fort, Qutab Minar, Jama Masjid
 - (b) Red Fort, India Gate, Qutab Minar
 - (c) Red Fort, Qutab Minar, Humayun Tomb
 - (d) Red Fort, Humayun Tomb, India Gate
- **57.** What will be the correct sequence of cities on the bank of river Ganga if someone moves from west to east?
 - (a) Prayagraj, Kanpur, Bhagalpur, Patna
 - (b) Prayagraj, Kanpur, Patna, Bhagalpur
 - (c) Kanpur, Prayagraj, Bhagalpur, Patna
 - (d) Kanpur, Prayagraj, Patna, Bhagalpur
- **58.** Which one among the following States has the longest extension in north-south direction?
 - (a) Jharkhand
- (b) Telangana
- (c) Odisha
- (d) Chhattisgarh
- **59.** Match List-I with List-II and select the correct answer using the code given below the Lists:

| List-I | List-II |
|----------------------------|---------------|
| (Day) | (Date) |
| A. World Wetlands Day | 1. 29 July |
| B. International Tiger Day | 2. 22 April |
| C. World Water Day | 3. 2 February |
| D. International Mother | 4. 22 March |
| Earth Dav | |

Code:

- (a) A B C D
 - 3 4 1 2
- **(b)** A B C D
 - 3 1 4 2
- (c) A B C D
 - 2 1 4 3
- (d) A B C D
 - 2 4 1 3
- **60.** Which one of the following States/UTs is *not* among the top five in the Performance Grading Index (PGI), published by the Ministry of Education for the year 2020--2021?
 - (a) Kerala
- (b) Punjab
- (c) NCT of Delhi
- (d) Chandigarh
- **61.** Consider the following statements and identify the actress:

She is a renowned film actress, director and producer, and an accomplished Indian classical dancer. She was conferred the Padma Shri in 1992 and has served as the Head of Central Board for Film Certification from 1998 to 2001. In recognition to her exemplary lifetime contribution to Indian Cinema, she was honoured with the prestigious Dadasaheb Phalke Award.

- (a) Vyjayanthimala
- (b) Waheeda Rehman
- (c) Mala Sinha
- (d) Asha Parekh
- **62.** Which one of the following is the venue of the UN 2023 Water Conference?
 - (a) Washington, DC
 - (b) New York
 - (c) San Diego
 - (d) New Delhi
- **63.** Which of the following statements is/are correct?
 - Tomb of Sand, written by Geetanjali Shree, is the first book originally written in any Indian language to win the International Booker Prize.

2. *Tomb of Sand* is the first novel translated from Hindi to be given the International Booker Prize.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- **64.** The eighth edition of the Exercise Garuda Shakti, a bilateral military-to-military exercise, was conducted recently between the special forces of India and
 - (a) Japan
- (b) Indonesia
- (c) Bhutan
- (d) Myanmar
- **65.** Which one of the following is a measure that can be used by the Government for combatting inflation?
 - (a) Increasing the non-planned expenditure on defence, police, etc.
 - (b) Providing more subsidies on exports
 - **(c)** Increasing the rate of interest on savings and fixed deposits
 - (d) Reduction in the cash reserve ratio (CRR)
- **66.** The sustained decrease in the general price level is called as
 - (a) deflation
- (b) stagflation
- (c) devaluation
- (d) recession
- **67.** Which one of the following indicators is included in the National Multidimensional Poverty Index (MPI)?
 - (a) Years of schooling
 - (b) Literacy rate
 - (c) Life expectancy
 - (d) Per capita income
- **68.** The unemployment that occurs due to changes in the technology or in the demand for particular products is called
 - (a) frictional unemployment
 - **(b)** structural unemployment
 - (c) cyclical unemployment
 - (d) disguised unemployment

- **69.** Which of the following is/are the objective/ objectives of the Pradhan Mantri Swasthya Suraksha Yojana (PMSSY)?
 - 1. Correcting regional imbalances in the availability of tertiary health care services
 - 2. Providing universal access to public health services and universal immunization
 - 3. Augmenting facilities for quality medical education in the country

- (a) 1 and 3 only
- **(b)** 2 and 3 only
- (c) 1 only
- (d) 1, 2 and 3
- **70.** Who among the following political leaders suggested the dissolution of the Indian National Congress as a political organization and its replacement by a Lok Sevak Sangh?
 - (a) Vallabhbhai Patel
 - (b) Dr. B. R. Ambedkar
 - (c) M. K. Gandhi
 - (d) Jawaharlal Nehru
- 71. India is the first country in the world to deploy an all-woman contingent to a UN Peacekeeping Mission. In which country did this mission operate?
 - (a) Liberia
- (b) Sudan
- (c) Burundi
- (d) Croatia
- **72.** Which one among the following is *not* a part of the SWAYAM programme?
 - (a) Video lectures
 - (b) Classroom lectures
 - (c) Online discussion forum for clearing doubts
 - (d) Specially prepared material that can be downloaded/printed
- **73.** Which one among the following Departments/ Authorities is *not* under the Ministry of Home Affairs?
 - (a) The Department of States
 - **(b)** The Department of Official Language
 - (c) The National Authority Chemical Weapons
 Convention
 - (d) The Department of Jammu, Kashmir and Ladakh Affairs

- **74.** Who among the following is given discretionary powers under the Fifth Schedule of the Constitution of India to set up a Tribes Advisory Council in a State which has Scheduled Tribes but not Scheduled Areas?
 - (a) The Governor of the concerned State
 - (b) The President of India
 - (c) The Inter-State Council
 - (d) The Parliament of India
- **75.** Which of the following States/UTs are included in the Northern Zonal Council?
 - (a) Uttarakhand, Uttar Pradesh, Haryana, Punjab, Jammu and Kashmir
 - **(b)** Haryana, Punjab, Himachal Pradesh, Rajasthan and NCT of Delhi
 - (c) Uttar Pradesh, Uttarakhand, Punjab, Haryana and Rajasthan
 - (d) Uttarakhand, Uttar Pradesh, Himachal Pradesh, Punjab and Haryana
- **76.** The notion of kinship projected by the Kushana rulers is best evidenced through which of the following?
 - (a) Their identification with deities
 - **(b)** Grants to religious institutions
 - (c) Inscriptional panegyrics
 - (d) Coins and sculpture
- 77. Who among the following were referred to as the Theris' in ancient India?
 - (a) Respected women
 - (b) Elder nuns in Buddhism
 - (c) Women denied the Bhikkhuni status
 - (d) Women expelled from the Buddhist Sangha
- **78.** Which member of the Servants of India Society founded the Seva Samiti at Allahabad in 1914?
 - (a) Shri Ram Bajpai
 - (b) Hriday Nath Kunzru
 - (c) S. G. Vaze
 - (d) Srinivas Shastri
- **79.** The First Anglo-Maratha War was concluded by which one of the following?
 - (a) The Treaty of Surat

- **(b)** The Treaty of Purandar
- (c) The Convention of Wadgaon
- (d) The Treaty of Salbai
- **80.** Name the battle in which the Travancore King defeated the Dutch in 1741.
 - (a) The Battle of Porto Novo
 - (b) The Battle of Colachel
 - (c) The Battle of Pollilore
 - (d) The Battle of Changanassery
- **81.** In which one of the following revolts did the Koya and Konda tribal chiefs rise against the local overlord from a Mansabdar family?
 - (a) The Rampa Rebellion, 1879-1880
 - (b) The Gudem Uprising, 1886
 - (c) The Rampa Rebellion, 1922-1924
 - (d) The Telangana Armed Struggle, 1946-1951
- **82.** Which country won the FIFA World Cup (Men) for maximum number of times?
 - (a) Argentina
- (b) Brazil
- (c) France
- (d) Spain
- **83.** Who among the following is the author of the famous novel, *City* of *Joy*?
 - (a) Larry Collins
 - (b) Dominique Lapierre
 - (c) Rudyard Kipling
 - (d) Mark Tully
- **84.** Who among the following is honoured with the UN Environment Programme's 2022 Champions of the Earth Award in the Entrepreneurial Vision category?
 - (a) Ela Bhatt
 - (b) Amit Dasgupta
 - (c) Pumima Devi Barman
 - (d) Vanshika Parmar
- **85.** The theme of India's G20 Presidency "Vasudhaiva Kutumbakam' or 'One Earth-One Family-One Future' is drawn from the
 - (a) Maha Purana
- (b) Maha Upanishad
- (c) Rig Veda
- (d) Smriti
- **86.** The 16th edition of Indo-Nepal annual joint training exercise in jungle warfare and counter

terrorism operations was held in December 2022 at Nepal Army Battle School, Saljhandi. What is the name of this exercise?

- (a) Sampriti
- **(b)** Mitra Shakti
- (c) Yudh Abhyas
- (d) Surya Kiran
- **87.** If it is 10:00 a.m. at Greenwich Mean Time (GMT), then what will be the time at 90° E longitude?
 - (a) 5:00 a.m.
- **(b)** 4:00 a.m.
- (c) 3:00 p.m.
- (d) 4:00 p.m.
- **88.** Which of the following groups of planets is termed as 'gas planets' as they are composed primarily of lighter ices, liquids and gases?
 - (a) Mars, Jupiter, Neptune, Uranus
 - (b) Jupiter, Uranus, Neptune, Saturn
 - (c) Saturn, Mars, Jupiter, Neptune
 - (d) Neptune, Saturn, Mars, Uranus
- **89.** Consider the following characteristics of a soil type:
 - 1. These soils consist of various proportions of sand, silt and clay.
 - 2. These soils contain adequate proportions of potash, phosphoric acid and lime.
 - 3. These soils can be further classified on the basis of their age.

Identify the type of soil on the basis of the given characteristics.

- (a) Alluvial
- (b) Laterite
- (c) Arid
- (d) Black
- **90.** Consider the following statements and identify the correct answer using the code given below:
 - In a thermal power station, fuels such as oil, coal or natural gas are used to generate electricity.
 - 2. Fuels are burned to heat water and turn it into steam, which goes through a turbine, which spins and turns, generating electricity.

Code:

(a) Statement 1 is correct but statement 2 is not correct

- **(b)** Statement 2 is correct but statement 1 is not correct
- (c) Both the statements are correct and statement 2 explains statement 1
- (d) Both the statements are correct but statement 2 does not explain statement 1
- 91. Indus river basin is extended up to
 - (a) Ladakh, Jammu and Kashmir, Himachal Pradesh, Punjab
 - (b) Ladakh, Jammu and Kashmir, Punjab, Haryana
 - (c) Ladakh, Jammu and Kashmir, Punjab, Haryana, Rajasthan
 - (d) Ladakh, Jammu and Kashmir, Himachal Pradesh, Punjab, Haiyana, Rajasthan
- **92.** Which one of the following statements about the Solicitor General of India (SGI) is *not* correct?
 - (a) The SGI is the Government's chief legal advisor.
 - **(b)** The SGI is the secondary law officer of the country.
 - (c) The post of the SGI is a constitutional post.
 - (d) The SGI is appointed by the Appointments Committee of the Cabinet.
- **93.** Which one of the following committees does *not* have members from the Rajya Sabha?
 - (a) The Public Accounts Committee
 - **(b)** The Committee on Public Undertakings
 - (c) The Estimates Committee
 - (d) The Committee on the Welfare of Scheduled Castes and Scheduled Tribes
- **94.** Which one of the following statements about the election of the President of India is *not* correct?
 - **(a)** A Union Minister shall not be eligible for election as the President.
 - **(b)** The President is elected by the elected members of the Parliament and the Legislative Assemblies of States and Union Territories.

- (c) The Electoral College does not include elected members of the Legislative Councils.
- **(d)** The system of proportional representation by means of single transferable vote is followed.
- **95.** The Citizenship Act, 1955 deals with the determination of citizenship on or after
 - (a) 26th January, 1950
 - **(b)** 26th November, 1949
 - (c) 15th August, 1947
 - (d) 14th August, 1947
- **96.** According to the National Multi-dimensional Poverty Index (MPI) constructed by the NITI Aayog, a household is considered deprived if
 - 1. a single member of the household is identified as under-nourished
 - 2. the body mass index of a woman member, between 15 years and 49 years of age, is below 18-5 kg/m2

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 97. The titles of 'Rayagajakesari' and 'Dayagajakesari' were associated with which one of the following dynasties?
 - (a) Kakatiya
- (b) Vijayanagara
- (c) Gajapati
- (d) Rashtrakuta
- **98.** Name the location of the musical inscription containing groups of musical notes arranged for the benefit of his pupils by a king in the seventh or eighth century CE.
 - (a) Ennayiram
 - (b) Uttaramerur
 - (c) Siyyamangalam
 - (d) Kudumiyamalai
- **99.** In the context of eighteenth century India, what was 'Dastak?
 - (a) Signature
 - (b) Land document
 - (c) Trade permit
 - (d) Tax on textiles

- **100.** Which one of the following was primarily associated with Dadni' system?
 - (a) Textile production
 - (b) Warfare
 - (c) Payment to officials
 - (d) Revenue collection
- **101.** Consider the following statements about Kanaganahalli archaeological site :
 - 1. It is situated on the bank of Bhima river.
 - 2. The remains of the Kanaganahalli Stupa can be dated between 1st and 3rd centuries CE.
 - 3. Emperor Ashoka's image was found at the site.

Which of the statements given above are correct?

- (a) 1 and 2 only
- **(b)** 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2 and 3
- **102.** Which of the following statements about volcanoes are correct?
 - 1. The strength of a volcano is measured by the Volcanic Explosive Index.
 - 2. Iceland and Philippines were created by volcanic activity.
 - 3. Volcanic soils are rich, deep and fertile and allow intensive agriculture to take place.

Select the correct answer using the code given below.

- (a) 1 and 2 only
- **(b)** 2 and 3 only
- **(c)** 1 and 3 only
- (d) 1, 2 and 3
- **103.** Consider the following characteristics of a cloud type:
 - 1. They are born through convection.
 - 2. Only cloud type that can produce hail, thunder and lightning.
 - 3. They are large cauliflower-shaped towers, often 'anvil tops'.

Identify the type of cloud on the basis of the given characteristics.

- (a) Stratocumulus
- (b) Cumulonimbus
- (c) Cirrocumulus
- (d) Nimbostratus

- 104. Meena wants to show diagrammatically how two sets of data, namely, population size and number of services are related to each other. Which one of the following will be the most suitable for the presentation?
 - (a) Pie chart
 - (b) Scatter graph
 - (c) Bar chart
 - (d) Triangular graph
- **105.** Which one of the following Indian States has the longest coastline?
 - (a) Tamil Nadu
 - (b) Gujarat
 - (c) Maharashtra
 - (d) Andhra Pradesh
- **106.** Which of the following statements is/are correct?
 - 1. Visakhapatnam Port is a land-locked harbour.
 - 2. Deendayal Port is a tidal port.

- (a) 1 only
- **(b)** 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2
- 107. There is an increase in forest cover area of India between 2011 and 2021. However, there is a decrease in forest cover area of India during the same period in
 - (a) very dense forest (canopy density of more than 70 percent)
 - **(b)** moderately dense forest (canopy density between 40-70 percent)
 - (c) open forest (canopy density between 10-20 percent)
 - **(d)** Both (b) and (c)
- **108.** Consider the following statements concerning the National Education Policy, 2020 :
 - At least 50 percent of the learners through school and higher education system to get exposure to vocational education by 2025.
 - 2. Secondary schools should collaborate with ITIs, Polytechnics and local industries.
 - 3. Vocational education to be exclusively provided by NGOs.

Which of the statements given above is/are correct?

- (a) 1 only
- **(b)** 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3
- **109.** Which of the following sets of States is at the bottom of the Composite SDG India Index, 2020-2021 as per the NITI Aayog?
 - (a) Assam, Jharkhand, Bihar
 - (b) Uttar Pradesh, Jharkhand, Bihar
 - (c) Uttar Pradesh, Bihar, Assam
 - (d) Odisha, Bihar, Jharkhand
- **110.** Which one of the following is not a part of Article 51 of the Constitution of India?
 - (a) Promote international peace and security
 - **(b)** Maintain just and honourable relations between nations
 - **(c)** Use of UN peacekeeping force for resolution of international disputes
 - **(d)** Encourage settlement of international disputes by arbitration
- **111.** Who among the following was *not* in the core leadership of the Non-Aligned Movement (NAM) in its formative phase?
 - (a) Kwame Nkrumah
 - (b) Gamal Abdel Nasser
 - (c) Jawaharlal Nehru
 - (d) Fidel Castro
- **112.** In respect to Balutedars, which of the statements given below are correct?
 - 1. They were village servants and artisans.
 - 2. They were employed by individual peasant family.
 - 3. They existed in the Medieval Deccan and Maharashtra.

- (a) 1 and 2 only
- **(b)** 2 and 3 only
- **(c)** 1 and 3 only
- (d) 1, 2 and 3
- **113.** Which one of the following Viceroys was the first to officially shift his Council to Simla in summer season?
 - (a) John Lawrence
 - **(b)** Lord Dalhousie
 - (c) Lord Mayo
 - (d) William Bentinck

- **114.** Who among the following is the author of Maze Vidyapeeth, the famous poem about the life of working class of Bombay?
 - (a) Narayan Surve
 - (b) Amol Palekar
 - (c) Bhalchandra Nemade
 - (d) Narendra Jadhav
- **115.** Who among the following founded the Hindu Dharma Sabha in the 19th century?
 - (a) Radhakanta Deb
 - (b) Ram Mohan Roy
 - (c) Dwarkanath Tagore
 - (d) Keshab Chandra Sen
- **116.** The resolution adopted by the United Nations General Assembly on 3 March, 2021 decided to celebrate the year 2023 as the International Year of
 - (a) Basic Sciences for Sustainable Development
 - (b) Glass
 - (c) Millets
 - (d) Camelids
- **117.** Karthik Meiyappan, who secured hat-trick in the ICC Men's T20 World Cup, 2022, represents
 - (a) Zimbabwe
 - (b) United Arab Emirates
 - (c) Sri Lanka
 - (d) Namibia
- **118.** Which one of the following statements about the Wassenaar Arrangement is *not* correct?
 - (a) There are 42 participating nations in the Arrangement.
 - **(b)** It is formed primarily as a nuclear weapon overseer.
 - **(c)** India is the current Chairman of the Arrangement.
 - **(d)** India joined the Arrangement in the year 2017.
- **119.** Who among the following is known as 'Payyoli Express?
 - (a) Hima Das
- (b) Dutee Chand
- (c) P. T. Usha
- (d) Shiny Abraham

120. Match List-I with List-II relating to Sahitya Akademi Award Winners, 2022 and select the correct answer using the code given below the Lists:

| | | List | -I | | | | | | List-II | | |
|-----------------------------|------|---------|---------|--------------|--|-----|---------------------|----|-----------|------|--|
| | (Tit | le and | Genre | e) | | | | | (Author) | | |
| A. | Bho | ol Saty | ya (Sho | ort Stories) | | | | 1. | Kamal Rai | nga | |
| B. Tumadi Ke Shabd (Poetry) | | | | | | 2. | Veena Gupta | | | | |
| C. | Chh | e Roo | pak (D | Prama) | | | | 3. | Badri Nar | ayan | |
| D. Alekhun Amba (Play) | | | | | | 4. | Manoj Kumar Goswami | | | | |
| Co | de: | | | | | | | | | | |
| (a) | A | В | C | D | | (b) | A | В | С | D | |
| | 1 | 2 | 3 | 4 | | | 1 | 3 | 2 | 4 | |
| (c) | A | В | C | D | | (d) | A | В | С | D | |
| | 4 | 3 | 2. | 1 | | | 4 | 2. | 3 | 1 | |

Answers

| Q.No. | Answer Key | Topic's Name | Chapter's Name |
|-------|------------|---------------------------------------|--------------------------------|
| 1 | a | Respiration | Life processes |
| 2 | c | Nutrition in plants | Life processes |
| 3 | d | Osmosis | Transport in plants |
| 4 | a | Digestion of food | Digestion and Absorption |
| 5 | a | Blood pressure | Body fluids and circulation |
| 6 | d | Speed of Sound | Sound |
| 7 | d | Sonic Devices | Sound |
| 8 | a | Electric Power | Electric current |
| 9 | b | Velocity time graph | Motion in one dimention |
| 10 | С | Power of Lens | Ray Optics |
| 11 | d | Characteristics of Reactions | Chemical Reactions & Equations |
| 12 | С | Combustion Reaction | Chemical Reactions & Equations |
| 13 | d | Types of Reactions | Chemical Reactions & Equations |
| 14 | b | Types of Reactions | Chemical Reactions & Equations |
| 15 | С | States of India | General Knowledge |
| 16 | d | Indian States | General Knowledge |
| 17 | b | Lake and Rivers | General Knowledge |
| 18 | b | Concept of literatecy | The 2011 Census of India |
| 19 | b | Costal and Landlocked states of India | Indian States |
| 20 | a | Inflation | Market equlibrium |
| 21 | d | Appreciation of currency | Monetary Policy |
| 22 | a | crowding out | Fiscal Policy in India |
| 23 | d | Niti Aayog Objective | Indian Economic Development |
| 24 | b | Tendulkar Committee | Poverty in India |
| 25 | С | National Skill Development Mission | Governmental Programmes |