

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO

24-0003-AA

## TEST BOOKLET

Time Allowed: 2 hours

PAPER - I

Maximum Marks: 150

### INSTRUCTIONS TO CANDIDATES

*Read the instructions carefully before answering the questions: -*

1. This Test Booklet consists of 16 (sixteen) pages and has 50 (fifty) items (questions).
2. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET.
3. Please note that it is the candidate's responsibility to fill in the Roll Number and other required details carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the OMR Answer Sheet liable for rejection.
4. Do not write anything else on the OMR Answer Sheet except the required information. Before you proceed to mark in the OMR Answer Sheet, please ensure that you have filled in the required particulars as per given instructions.
5. Use **only Black Ball Point Pen** to fill the OMR Answer Sheet.
6. This Test Booklet is divided into 3 (three) parts - **Part - I, Part - II and Part - III.**
7. All three parts are **Compulsory.**
8. **All three parts consist of Multiple Choice-based Questions.** The answers to these questions have to be marked in the OMR Answer Sheet provided to you.
9. Each item (question) **comprises of 04 (four) responses (answers).** You are required to select the response which you want to mark on the OMR 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.
10. After you have completed filling in all your responses on the OMR Answer Sheet and the Answer Booklet(s) and the examination has concluded, you should hand over to the Invigilator **only the OMR Answer Sheet and the Answer Booklet(s).** You are permitted to take the Test Booklet with you.
11. **Penalty for wrong answers in Multiple Choice-based Questions:**  
**THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE.**
  - (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 the 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 the 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.

DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO



**This page has been left blank intentionally.**



All questions carry equal marks.

All the questions are compulsory.

## PART – I

### GENERAL ENGLISH

Based on the reading of the passage given below, choose the correct options for the following questions:

Ganges river dolphins occur in the Ganges-Brahmaputra river system primarily in India and Bangladesh. They are listed as endangered by the IUCN due to a probable population decline of at least 50% over the last 50 years and projected future population declines. Dolphins have been destroyed in the upper reaches of many rivers. The population has been fragmented by irrigation barrages and dry season habitat is further reduced by diversion of water. In comparison to the Ganges, the Brahmaputra River is lesser degraded and is therefore of great importance of persistence of the subspecies.

For this reason, a recent proposal by Oil India Ltd. to *initiate* seismic exploration using explosives and air-guns along the river bed of the Brahmaputra River to prospect for oil has potentially disastrous implications for Ganges River dolphins.

Behavioral studies on dive time, surfacing interval and acoustic investigations were also carried out in two dolphin hotspots. Dolphins spent an average 107.3 seconds under water and 1.26 seconds above water. Mortality through fisheries by-catch was identified as one of the major threats to Ganges dolphins in the Brahmaputra River. Based on high abundance, potential for protection and possibilities for dolphin eco-tourism, eight river sections were identified as potential protected areas and community-based conservation areas.

1. Why are the Ganges River dolphins listed as endangered?

- (a) They are dying in huge numbers
- (b) Their population has dwindled by fifty percent in the last fifty years
- (c) The rivers are dammed
- (d) The rivers are fast flowing

2. Dolphin population has been completely wiped out from-

- (a) The lakes situated in the higher regions
- (b) From the forests
- (c) From the upper reaches of many rivers
- (d) From lower regions of rivers



3. Why is the Brahmaputra River highly suitable for dolphin conservation?
- (a) It is less polluted
  - (b) It is a big river
  - (c) It is perennial
  - (d) It is situated in North-Eastern region of India
4. The most imposing threat to Ganges dolphins in the Brahmaputra River is mortality through-
- (a) Diseases
  - (b) Drying up of rivers
  - (c) Industrial activities
  - (d) Fisheries by-catch
5. Which word is similar to the meaning of the word '*initiate*' as used in the paragraph?
- (a) End
  - (b) Commence
  - (c) Forfeit
  - (d) Regulate

**Choose the correct words to fill in the blanks from the options given below:**

6. We \_\_\_\_\_ to the cinema together. We have a lot of work to finish.
- (a) are going
  - (b) will be going
  - (c) were going
  - (d) are not going
7. \_\_\_\_\_ we be facing trouble without water in future?
- (a) Had
  - (b) Will
  - (c) Does
  - (d) Can
8. Plants \_\_\_\_\_ by the gardener, see.
- (a) are being watered
  - (b) are watered
  - (c) are watering
  - (d) have been watered



9. There must be something wrong with Doma's car as she \_\_\_\_\_ to her office by bus.

- (a) is gone
- (b) will go
- (c) is going
- (d) could go

10. The superlative form of adjective 'popular' is-

- (a) Popularity
- (b) Populist
- (c) Popularist
- (d) Most popular

**Choose the correct words to fill up the blanks from the options given below to complete the paragraph:**

The Wangala (11) \_\_\_\_\_ festival for the Garo tribe in Meghalaya, Assam and Nagaland. It is a post-harvest festival (12) \_\_\_\_\_ the end of the agricultural year. It is popularly known as 'The Hundred Drums' festival. During the signature dance, the leading warrior (13) \_\_\_\_\_ with synchronized dance steps and specific hand-head movements.

11. (a) is important (b) are important (c) was important (d) is an important

12. (a) is being celebrated for making (b) celebrated to mark (c) celebrate to mark (d) being celebrated to mark

13. (a) leads the youngsters (b) lead the youngsters (c) was leading the youngsters (d) had lead the youngsters

**Choose the correct meaning of the following idioms/phrases:**

14. To end in smoke

- (a) To make completely understand
- (b) To ruin oneself
- (c) To make completely fool of oneself
- (d) To overcome oneself

15. Die in harness

- (a) Die in a harness
- (b) Die in a battlefield
- (c) Die with honour
- (d) Die while working



**PART - II**

**GENERAL KNOWLEDGE**

16. What term has been used for the iridescent clouds that were spotted recently over parts of Scotland and England?

- (a) Nacreous clouds
- (b) Cumulus clouds
- (c) Cirrus clouds
- (d) Stratus clouds

17. As per India Skill Report 2024, which state is the most preferred state for work?

- (a) Karnataka
- (b) Odisha
- (c) Kerala
- (d) Gujarat

18. As per new study, noise pollution affects the ability of which species to communicate?

- (a) Bats
- (b) Dolphins
- (c) Whales
- (d) Giraffes

19. A state-level celebration of 'Ubhauli Sakewa' was recently celebrated by which community in Namchi?

- (a) Gurung
- (b) Sikkimese
- (c) Lepcha
- (d) Rai

20. Who has been inducted as a member of 'National Start up Advisory Council' from Sikkim?

- (a) Dr. Tej Chingtham
- (b) Dr. Renu Swarup
- (c) Bedu Singh Panth
- (d) Amit Jain



21. In which state of India is 'Kuno National Park' located?

- (a) Maharashtra
- (b) Madhya Pradesh
- (c) Gujarat
- (d) Assam

22. 'Namda' is the centuries old traditional craft. It is associated with which state in India?

- (a) Arunachal Pradesh
- (b) Assam
- (c) Jammu and Kashmir
- (d) Uttarakhand

23. Which country is not a member of the Organization of the Petroleum Exporting Countries (OPEC)?

- (a) Congo
- (b) Gabon
- (c) Nigeria
- (d) Qatar

24. Which Indian airport recently received recognition as UNESCO's 2023 Prix Versailles?

- (a) Kempegowda International Airport T2
- (b) Indira Gandhi International Airport
- (c) Chhatrapati Shivaji Maharaj International airport
- (d) Chennai International Airport

25. Which Ministry has launched the 'Bhoomi Rashi Portal'?

- (a) Ministry of Agriculture
- (b) Ministry of Rural Development
- (c) Ministry of Road, Transport and Highways
- (d) Ministry of Finance

26. Which state is the main partner of International Gita Seminar and Gita Mahotsav?

- (a) Uttar Pradesh
- (b) Assam
- (c) Madhya Pradesh
- (d) Haryana



27. 'Prahari' is an application launched for better governance of which institution?

- (a) CRPF
- (b) Indian railways
- (c) PSUs
- (d) BSF

28. Who was the coach of Lovlina Borgohain who won the bronze medal in boxing at the 'Tokyo Olympics' 2020?

- (a) Amar Subba
- (b) Sandhya Gurung
- (c) Eksha Hangma Subba
- (d) Jasral Pradhan

29. Manas River is a tributary of which of the following rivers?

- (a) Narmada
- (b) Ganga
- (c) Brahmaputra
- (d) Indus

30. Arrange the following tributaries of River Ganga from east to west direction.

- (i) Kosi
- (ii) Yamuna
- (iii) Gomati
- (iv) Damodar

**Choose the correct code from below:**

- (a) (iv), (ii), (i), (iii)
- (b) (iv), (i), (iii), (ii)
- (c) (iii), (iv), (i), (ii)
- (d) (iii), (ii) (i), (iv)

31. As per Koppen's classification of Indian climate, Sikkim and Arunachal Pradesh are the part of which of the following climate region?

- (a) Semi-Arid Steppe
- (b) Tundra type
- (c) Cold Humid type
- (d) Tropical Monsoon type



32. Which of the following is used as a lubricant?

- (a) Graphite
- (b) Silica
- (c) Iron oxide
- (d) Diamond

33. Which of the following is the lightest metal?

- (a) Mercury
- (b) Lithium
- (c) Lead
- (d) Silver

34. Who is the first Hindu woman to file a nomination for a general seat in the upcoming elections in Pakistan?

- (a) Amita Arya
- (b) Chinta Anuradha
- (c) Mohua Moitra
- (d) Dr Saveera Parkash

35. Recently Indian government decided to terminate the Free Movement Regime (FMR) along which of the following borders?

- (a) India-Myanmar Border
- (b) India-Bhutan Border
- (c) India-Bangladesh Border
- (d) India-Afghanistan Border



**PART - III**

**MATH**

**Choose the correct answer for the following:**

36. The value of the trigonometric ratio  $(1 + \cot A - \operatorname{cosec} A)(1 + \tan A + \sec A)$  is:

- (a) 0
- (b) 1
- (c) 2
- (d) 4

37. The tops of two towers of height  $x$  and  $y$ , standing on the level ground, subtend angles of  $30^\circ$  and  $60^\circ$  respectively at the centre of the line joining their feet. The ratio  $x : y$  is :

- (a)  $1 : 3$       (b)  $1 : \sqrt{3}$       (c)  $\sqrt{3} : 1$       (d)  $\sqrt{3} : 2$

38. The difference of two natural numbers and their reciprocals are 3 and  $\frac{3}{28}$  respectively. The numbers are:

- (a) 8 and 11
- (b) 4 and 7
- (c) 5 and 8
- (d) 6 and 9

39. The numerator of a fraction is 3 less than its denominator. If 1 is added to the denominator the fraction is decreased by  $\frac{1}{15}$ . The fraction is:

- (a)  $\frac{5}{8}$       (b)  $\frac{4}{7}$       (c)  $\frac{2}{5}$       (d)  $\frac{7}{10}$

40. The number of three-digit natural numbers that are divisible by 7 is:

- (a) 97
- (b) 111
- (c) 118
- (d) 128



41. The sum of first  $n$  terms of an A.P. is  $3n^2 + 4n$ . The 25<sup>th</sup> term of this A.P. is:

(a) 135

(b) 141

(c) 147

(d) 151

42. If the point C  $(-1, 2)$  divides internally, the line segment joining the point A  $(2, 5)$  and B  $(x, y)$  in the ratio 3 : 4, then the distance of the point B from origin is :

(a) 5                      (b)  $\sqrt{29}$                       (c)  $\sqrt{39}$                       (d)  $3\sqrt{5}$

43. If the point P  $(p, q)$ , Q  $(m, n)$  and R  $(p - m, q - n)$  are collinear, then:

(a)  $pm = qn$

(b)  $pn = qm$

(c)  $pq = mn$

(d)  $p^2 + q^2 = m^2 + n^2$

44. If a fair dice is thrown twice, then the probability that 5 may not appear either time is:

(a)  $\frac{25}{36}$                       (b)  $\frac{30}{36}$                       (c)  $\frac{11}{36}$                       (d)  $\frac{1}{36}$

45. From a well-shuffled pack of 52 cards, black jacks, black kings and black queens are removed from the pack. The probability of not getting a diamond card from the pack is:

(a)  $\frac{13}{23}$                       (b)  $\frac{33}{46}$                       (c)  $\frac{31}{46}$                       (d)  $\frac{27}{46}$



If  $\sec \theta + \tan \theta = p$ , then  $\sin \theta$  is:  
46.

(a)  $\frac{p^2 - 1}{p^2 + 1}$

(b)  $\frac{p^2 + 1}{p^2 - 1}$

(c)  $\frac{2p}{p^2 - 1}$

(d)  $\frac{2p}{p^2 + 1}$

47. A number  $x$  is selected at random from the number 1, 3, 5, 7, 9 and another number  $y$  is selected at random from the numbers 1, 4, 9, 16, 25. The probability that the value of  $xy$  is greater than 60, is:

(a)  $\frac{6}{25}$

(b)  $\frac{7}{25}$

(c)  $\frac{8}{25}$

(d)  $\frac{9}{25}$

48. The diagonals of a rhombus are 16 cm and 12 cm, in length. The side of the rhombus in length is:

(a) 20 cm

(b) 8 cm

(c) 10 cm

(d) 9 cm

49. If the perimeter of a triangle is 100cm and the two sides are of 35 cm and 30cm. What will be the length of the third side of the triangle?

(a) 30 cm

(b) 40 cm

(c) 35 cm

(d) 25 cm

50. From the following, find the mean of the data: 4, 10, 5, 9, 12

(a) 8

(b) 10

(c) 9

(d) 15