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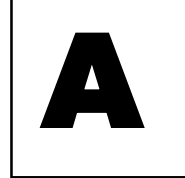


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Test Booklet Series



TEST BOOKLET

GENERAL STUDIES
Paper II

C-A-25-2026

Time Allowed: Two Hours

Maximum Marks: 200

I N S T R U C T I O N S

1. Immediately after the commencement of the examination, you should check that this test booklet does *not* have any unprinted or torn or missing pages or items etc. if so, get it replaced by a complete test book.
2. **Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series A, B, C or D carefully without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the Answer Sheet liable for rejection.**
3. This Test Booklet contains **80** items (questions). Each item is printed in **English**. 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.
4. You have to mark all your responses **ONLY** on the separate Answer Sheet provided. See directions in the Answer Sheet. **All** items carry equal marks.
5. Before you proceed to mark in the Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per instructions sent to you with your Admit Card.
6. **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
7. After you have completed filling in all your responses on the Answer Sheet and the examination has concluded, you should hand over to the Invigilator *only* the *Answer Sheet*. You are permitted to take away with you the Test Booklet.

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Directions for the following 4 (four) items:

Read the following **three passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

Demonstrating strategic adaptability in a changing geopolitical landscape marked by varying priorities among key stakeholders, India's approach involves pragmatically working with varying sets of longstanding friends and emerging partners on specific issues. This could position India as a key bridge linking a variety of different actors. However, New Delhi's geographic priorities differ markedly from its Quad partners, meaning its will and capacity for leadership in the Indian Ocean are far greater than in the Pacific. Now that India has put its support behind the notion of a 'Free and Open Indo-Pacific', other countries with similar objectives – for example, the UK – may view this as an avenue to develop a more meaningful strategic partnership with Delhi. Doing so, however, requires an understanding of the role of the Indo-Pacific in India's strategic outlook. Although India is central to other states' Indo-Pacific strategies, a combination of geopolitical, strategic and regional considerations meant New Delhi lagged Tokyo, Canberra and Washington, DC, among others, in adopting the concept.

1. Based on the above passage, the following assumptions have been made:

1. India prioritizes its own strategic autonomy and regional interests over immediate alignment with external frameworks.
2. The weather patterns in the Indian Ocean significantly impact India's naval deployment strategies.

Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage 2

Cities have been getting overloaded due to the intense immigrations to urban areas and the population growth as a result of them, requiring new equipment and services, as the present infrastructure is insufficient. Besides, a host of problems arise in transportation and traffic infrastructure along with the corruption emerging in urban quarters as a result of socio-economic and technological changes. In big cities, ring roads aimed to increase the speed and capacity of transportation and highways reducing the transportation time between cities have been creating negative impacts as well as leading to facilities in terms of service functions, causing visual and audial pollution in urban areas. In this regard, Landscape design approaches should be used in reducing the pollution in cities.

2. Which one of the following is the most logical and rational inference that can be made from the above passage?

- (a) Immigration to urban areas is burgeoning.
- (b) Transportation infrastructure in the cities is the major source of air and noise pollution.
- (c) We can address various pollution related issues in cities through planning.
- (d) Ring roads have successfully been able to address the transportation issues in major cities.

Passage 3

Strangely, the idea of phages as treatments has never overcome initial scepticism. Outside of areas such as Eastern Europe, the medical community discarded them when antibiotics emerged mid-century. Today, however, phage-based therapies are gaining traction. That's partly because phages kill bacteria in a different way from antibiotics, offering a potential lifeline as antibiotic resistance plays a role in the deaths of 5 million people each year worldwide. Phages also offer pinpoint targeting, since most phages evolved to infect one or a few strains of bacteria or archaea. Identifying the bacterium causing a patient's illness and finding a phage that kills it could wipe out the troublemaker and leave beneficial bacteria unharmed. In the past few years, doctors operating under compassionate use allowances have saved a small number of people from

life-threatening bacterial infections that defied all other treatments. The number of phage therapy clinical trials is ticking upward.

3. With reference to the above passage, which of the following inferences can be drawn?

1. The resurgence of phage therapy indicates a growing recognition of the limitations of antibiotics, and the need for alternative antimicrobial strategies.
2. The social status of a patient significantly impacts their access to compassionate use phage therapy.

Select the correct answer using the codes given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

4. Based on the above passage, the following assumptions have been made:

1. The medical community prioritizes usage of established treatments over novel and less familiar ones.
2. The effectiveness of Phage therapy relies on accurate bacterial identification and phage matching.

Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

5. For what value of n will $(10^n + 2)$ result in an odd number?

- (a) For $n = 0$ only
- (b) For any whole number n
- (c) For any positive integer n
- (d) For any natural number n

6. How many five-digit prime numbers can be obtained by using all the digits 1, 2, 3, 6 and 9 without repetition, such that the first two places are always occupied by 3 and 2 respectively?

- (a) Zero
- (b) Two
- (c) Six

(d) Nine

7. Which of the following condition(s) prohibits $(15q^3 + 6q^2 + 5q + p)/q$ from becoming an integer, wherein both p and q are integers?

- (a) q is positive
- (b) p is divisible by q
- (c) p is not divisible by q
- (d) Both (a) and (c)

8. If a fair dice is rolled two times, what is the probability that the first result is more than the second result?

- (a) $5/12$
- (b) $7/12$
- (c) $1/2$
- (d) $3/4$

9. If you have two straight sticks of length 15 feet and 6.50 feet, then what is the minimum length that you can measure?

- (a) 0.05 feet
- (b) 2 feet
- (c) 0.5 feet
- (d) 3.25 feet

10. A group of girls is playing a game in which they draw a square on the ground and jump from one vertex to an adjacent vertex (but they cannot jump diagonally). Yashi starts at vertex A of square ABCD and can jump randomly to an adjacent vertex with each move. In how many different ways can she reach vertex C in exactly 11 jumps?

- (a) 0
- (b) 2
- (c) 3
- (d) 5

11. A three-digit positive number has the following properties:

1. If we add the cube of the digit in the hundreds place to the product of all its digits, the result is 50.
2. If we add the square of the digit in the tens place to the sum of all its digits, the result is 61.

What is the three-digit number?

- (a) 196
- (b) 349
- (c) 273
- (d) 438

Directions for the following 3 (three) items:

Read the following **three passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

Following the Berlin conference which was held to divide Africa for the imperial powers to gain control, the General Act of the Berlin Conference was used by the colonial powers. The campaign was to allow the imperialists to physically pick and choose which parts of Africa they wanted. After this, Africa was invaded economically, socially and politically. States were created and administered by a foreign military; resources were exploited and shipped outside of the continent. These states were not independent but extensions of the territory of the imperialists, they had no governments or self-elected leaders. Instead, they had systems of local administrations headed by a chief or local leader who reported to the masters. For years, the project of colonialism had crept its way into the social and mental lives of Africans, their way of life changed, and language, traditions and cultures were wiped away and replaced with foreign ones.

12. What is the main idea of the passage?

- (a) The General Act facilitated imperial powers in choosing the African territories they wanted to rule.
- (b) Resources were exploited and shipped outside the African continent.
- (c) Colonialism changed the social lives of Africans.
- (d) The Berlin Conference led to the systematic exploitation of Africa by colonial powers.

Passage 2

As most of us recognize, education is the key for the world's long term progress. However, learning should not be left only to the classroom. Currently, children and adolescents in developing countries have too much leisure time, and some don't even attend school. Many

come from broken families, join gangs or participate in illegal activities because of lack of direction. Children and teens that seem abandoned by the formal education systems can be sheltered from the many backdrops that abound in their communities by the implementation of "sports for development" programs. The role of sports in society is not only measured by TV ratings or stadium attendance. In 2003, the UN defined sport, for the purpose of development, as "all forms of physical activity that contribute to physical fitness, mental wellbeing and social interaction, such as play, recreation, organized or competitive sport, and indigenous sports and games."

13. What is the most logical and crucial message conveyed by the passage?

- (a) Education without sports is incomplete and comparable to no education at all.
- (b) Children from broken families are more inclined to take up sports as a career.
- (c) In India, the role of sports in the development of society is undervalued.
- (d) The scope of sports is much more than its physical aspect.

Passage 3

Policy measures and higher sensitisation of the general public and specific stakeholders like media professionals appear as needed paths to ensure the protection of wildlife and, therefore, biodiversity. The engagement of printed, audiovisual, electronic and online media outlets in advocating wildlife as an essential component of biodiversity and as an added potential to tourism development by reporting professionally, accurately and comprehensively on this topic remains a major goal. The increased capacity of the media will enable a framework of action together with governments and civil society to improve wildlife and biodiversity protection. Besides being mentioned in the SDGs, wildlife and biodiversity have been placed at the core of most of the discussions of the Agenda 2030. The recent UN Biodiversity Conference was integrated by Working Groups. These addressed cooperation with other conventions and organisations, a global multilateral benefit-sharing mechanism under the Nagoya Protocol, and socioeconomic

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considerations under the Cartagena Protocol on Biosafety.

14. Based on the passage given above, the following assumptions have been made:

1. The public, when adequately informed, will prioritize and actively support wildlife and biodiversity conservation
2. Well-informed media is capable of influencing public opinion and policy decisions regarding wildlife protection.

Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

15. A pen dealer sells pens for Rs. 150 each. However, he offers two successive discounts of 12% and 13.63%. After applying these discounts, he adds a 14% GST to the final sale price and collects it from the customer. What is the approximate amount a customer must pay for one pen (in rupees)?

- (a) Rs. 100
- (b) Rs. 110
- (c) Rs. 120
- (d) Rs. 130

16. A tank is being filled by two taps running continuously. The first tap alone can fill the tank in 20 hours, while the second tap alone can fill it in 25 hours. However, due to an unnoticed leak, the filling process is delayed by 2 hours. How much time would the leak alone take to empty 25% of the filled tank?

- (a) 11.56 hours
- (b) 16.34 hours
- (c) 18.24 hours
- (d) 20.16 hours

17. Ranjit can complete a piece of work in 15 days. He works together with Manjit, and they are paid Rs. 60 and Rs. 75, respectively, for completing the task. In how many days did they complete the work together?

- (a) 8.16 days

- (b) 12.33 days
- (c) 11.66 days
- (d) 6.66 days

18. A seven-digit number comprises of only 2's and 3's. How many of these are multiples of 12?

- (a) 11
- (b) 12
- (c) 10
- (d) 22

19. A student has an average score of P points over her first four tests. On her fifth test, she scores 50 points more than this average. What will be her new average score across all five tests?

- (a) $P + 12$
- (b) $P + 10$
- (c) $P + 4$
- (d) 10

20. The HCF of the number $n + 5$ and $2n + 4$ is 6, where n is a natural number. How many such pairs of numbers are there if $n < 10$?

- (a) 0
- (b) 1
- (c) 2
- (d) 3

Directions for the following 4 (four) items:

Read the following **three passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

Unity is not about supremacy, for it is respectful of all within its fold. History bears witness to the fact that supremacist tendencies are the originators of violence. They thus break societies, people and countries. In this context, seeing regionalism as a conservative worldview is incorrect. Regionalism can help preserve local traditions, customs and way of life. The challenges of the modern world are anyway compelling us to look back to the old ways. We are digging for local customs and traditions that are sustainable and accommodative. We are looking for people who were

preservers of some of those traditions because technology and globalization deprived us of such heritage. Thus, it is important to see the need to protect local cultures through that prism and not as an antidevelopment programme.

21. Which of the following statements best reflects the critical message of the passage?

- (a) Regionalism may help preserve indigenous methods that may prove useful later on.
- (b) Unity among the citizens is critical for the survival of the nation.
- (c) The traditional system of medicine is much more superior to modern medicine.
- (d) Globalization has led to an erosion of local cultures and the way of life in India.

Passage 2

In recent decades, there has been an increase in demand for cleaner energy resources. Based on that, decision makers of all countries have drawn up plans that depend on renewable sources through a long-term strategy. Thus, such plans reduce the reliance of dependence on traditional energy sources and substitute traditional energy sources with alternative energy technology. As a result, the global community is starting to shift towards utilizing sustainable energy sources and reducing dependence on traditional fossil fuels as a source of energy. In 2015, the UN adopted the Sustainable Development Goals (SDGs) and recognized them as international legislation, which demands a global effort to end poverty, safeguard the environment and guarantee that by 2030, humanity lives in prosperity and peace. Consequently, progress needs to be balanced among economic, social and environmental sustainability models. Many national and international regulations have been established to control the gas emissions and pollutants that impact the environment.

22. What is the main idea of the passage?

- (a) The shift towards sustainable practices is driven by increasing demand for cleaner resources and international agreements.
- (b) The global community is shifting towards sustainable practices.

- (c) Increased investment in renewable technologies has led to a corresponding increase in the demand for rare earth minerals.
- (d) None of the above

23. Based on the passage given above, the following assumptions have been made:

1. The UN assumes all member states have identical legal systems to implement the SDGs as international legislation.
2. Renewable energy technologies are viable and scalable alternatives to traditional fossil fuels.

Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage 3

Electricity grids have been modernized thanks to developments in digital technology, energy storage, and aggregation and load-shedding systems, which are helping to increase the share of intermittent energy. The upgrading of information systems and the introduction of digital solutions are also improving service, knowledge and relations with customers and suppliers, helping to boost the performance of electricity operators and the viability of their business models. Lastly, technological innovations associated with the development of stand-alone solar kits and mini-grids based on renewable or hybrid energies are helping to rethink access policies, particularly in rural areas. These innovative digital solutions are gradually being developed and are already having a significant impact on energy systems. These innovations, in conjunction with digital technology, will be powerful levers for accelerating energy transitions.

24. Based on the above passage, the following assumptions have been made:

1. Digital technology provides effective and reliable solutions for managing complex electricity grids and improving customer interactions.
2. Installation of solar kits and mini-grids in rural areas requires specialized training for local technicians.



Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

25. How many real values of 'a' satisfy the equation

$$a^{\frac{2}{3}} + a^{\frac{1}{3}} - 2 = 0?$$

- (a) Only 1 value
- (b) 2 values
- (c) 3 values
- (d) No Value

26. Let p, q, r and s be natural numbers such that:

$$p - 3236 = q + 3237 = r - 3238 = s + 3239$$

Which one of the following is the largest natural number among them?

- (a) p
- (b) q
- (c) r
- (d) s

27. Two statements S1 and S2 are given below followed by a question.

S1: P is a two-digit prime number.

S2: P is greater than 80.

Question: Is $P > 90$?

- (a) S1 alone is sufficient to answer the Question.
- (b) S2 alone is sufficient to answer the Question.
- (c) S1 and S2 together are sufficient to answer the Question, but neither S1 alone nor S2 alone is sufficient to answer the Question.
- (d) S1 and S2 together are not sufficient to answer the Question.

28. Consider the Statements and the Conclusions given below.

Statement: $H > Y \geq G = W < J$; $V = P \geq Y = E > B$

Conclusion-I: $V \leq J$

Conclusion-II: $H \geq W$

Which one of the following is correct in respect of the above Statement and the Conclusions?

- (a) Only Conclusion-I follows from the Statement.

(b) Only Conclusion-II follows from the Statement.

(c) Both Conclusion-I and Conclusion-II follows from the Statement.

(d) Neither Conclusion-I nor Conclusion-II follows from the Statement.

29. What digit is at the units place of the answer that we get on simplifying $(364)^{243} +$

$$(247)^{49}(323)^{87} - (629)^{127}(242)^{133}?$$

- (a) 3
- (b) 6
- (c) 4
- (d) 5

30. If the numerator of a fraction is increased by 18.75% and its denominator is decreased by 22.22%, the value of the fraction becomes $18/7$.

Find the original fraction.

- (a) $36/17$
- (b) $32/19$
- (c) $28/15$
- (d) $23/18$

31. Two statements S1 and S2 are given below followed by a question.

S1: X is a multiple of 2.

S2: Y is a multiple of 3.

Question: Is X/Y a terminating decimal?

- (a) S1 alone is sufficient to answer the Question.
- (b) S2 alone is sufficient to answer the Question.
- (c) S1 and S2 together are sufficient to answer the Question, but neither S1 alone nor S2 alone is sufficient to answer the Question.
- (d) S1 and S2 together are not sufficient to answer the Question.

32. The average marks of students who appeared for an examination was found out to be 60. However, later on an error was spotted in the reference answer key and marks of all the students were changed accordingly. Marks of 80 students decreased from 90 to 60. Average marks also fell down to 50. What is the number of students who took the examination?

- (a) 180
- (b) 210

- (c) 240
(d) 300

33. There are five brothers: A, B, C, D, and E. The average salary of A, B, C, and D is ₹5 lakh per month, while the average salary of B, C, D, and E is ₹6 lakh per month.

Consider the following statements:

1. The salary of A is more than that of E.
2. The salaries of A and E would be equal if the average salary of B, C, D, and E was ₹5 lakh.

Which of the above statements is/are correct?

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

Directions for the following 4 (four) items:

Read the following **three passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

If there is one belief that has united the left and the right, psychologists and philosophers, ancient thinkers and modern ones, it is the tacit assumption that humans are bad. It's a notion that drives newspaper headlines and guides the laws that shape our lives. From Machiavelli to Hobbes, Freud to Pinker, the roots of this belief have sunk deep into Western thought. Human beings, we're taught, are by nature selfish and governed primarily by self-interest. But historian Rutger Bregman takes some of the world's most famous studies and events and reframes them, providing a new perspective on the last 200,000 years of human history, setting out to prove that we are hardwired for kindness, geared toward cooperation rather than competition, and more inclined to trust rather than distrust one another. In fact this instinct has a firm evolutionary basis going back to the beginning of Homo sapiens. If we believe in the reality of humanity's kindness and altruism, it will form the foundation for achieving true change in society.

34. What is the main idea that we can infer from the passage?

- (a) Our beliefs about human nature are powerful enough to shape our lives as well.
(b) Scholars in the past could not understand the real nature of the human psyche.
(c) We are naturally trustworthy and cooperative to be able to create a good society.
(d) Human instincts are the springs of good and bad traits.

Passage 2

Technical instruments—such as establishing basin-wide management plans or joint monitoring networks—are not part of water diplomacy. While diplomatic and technical instruments often build on each other and can be directly linked, consistently defining water diplomacy merits this strict differentiation as will become clear later. Disagreements and conflicts are not narrowly defined as official, full-fledged disputes being fought with diplomacy, or even violence. Instead, conflicts include situations in which user groups (nationally or internationally) have competing uses for a scarce resource that can lead to disagreements that destabilize communities, countries or regions. Conflicts can relate to different understandings of whether a watercourse should be developed for unilateral economic gains or mutual benefit, an issue particularly pertinent in shared water basins, for instance. Ideally, such disagreements are addressed before they turn into conflicts, thus making much of water diplomacy preventive diplomacy.

35. Based on the above passage, the following assumptions have been made:

1. Resource scarcity inherently creates potential for conflict, even in the absence of formal disputes.
2. Differing perspectives on watercourse development are a source of potential conflict in shared water basins.

Which of the assumptions given above is/are correct?

- (a) 1 only
(b) 2 only
(c) Both 1 and 2
(d) Neither 1 nor 2

36. With reference to the above passage, which of the following inferences can be drawn?

1. Water diplomacy is primarily a political and social process, distinct from the technical aspects of water management.
2. The primary purpose of water diplomacy is to maximize unilateral economic gains for a single nation, regardless of the impact on other nations sharing the watercourse.

Choose the correct answer using the codes given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage 3

With respect to nursing care, the stigma attached to what is seen as a lowly profession manifests in different ways. It is often seen as work that does not require a high level of skill or training, unlike doctors and surgeons. There is little data on the gendered nature of violence experienced by healthcare workers during this pandemic, but research before the pandemic had found that most violence is targeted at female nurses in emergency departments with long waiting times, in isolated places at patients' homes, or in geriatric and psychiatric departments. In addition, women healthcare workers experience many forms of routine violence that might not be physical in nature, but is discriminatory, intimidating and threatening. This violence is intersectional in nature, expressed along race/religious/regional lines.

37. Which one of the following is best implied in the passage?

- (a) The nursing staff do not enjoy social status comparable to doctors and surgeons.
- (b) Violence against female healthcare workers has been rampant during the pandemic.
- (c) Nurses have been found to face many physical and other forms of intimidating violence.
- (d) In India, the healthcare workers do not get the same socio-economic benefits as in other countries.

38. A Question is given below followed by two Statements I and II.

Question: What is the total amount of money that the group of four has?

Statement-I: A has ₹400 with him, out of which he gives ₹100 to B. B gives half of what he has to C. Now, C and D has the same amount.

Statement-II: C has ₹300. He gives ₹100 each to D and B, both of whom already had ₹10 each. A has twice the amount of money that C has left after sharing with B and D.

Which of the following is correct in respect of the above Question and the Statements?

- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- (b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- (c) The data in statement I alone or in statement II alone is sufficient to answer the question.
- (d) The data in both the statements I and II together is not sufficient to answer the question.

39. A Question is given below followed by two Statements I and II.

Question: What is the remainder of $[(x + 1)^N/x]$ wherein x and N are natural numbers?

Statement-I: $x = 5$, and N is divisible by 7.

Statement-II: $x = 17$, and N is divisible by 20.

Which of the following is correct in respect of the above Question and the Statements?

- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- (b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- (c) The data in statement I alone or in statement II alone is sufficient to answer the question.
- (d) The data in both the statements I and II together is not sufficient to answer the question.



40. Three Statements followed by two Conclusions are given below. You have to take the Statements to be true even if they seem to be at variance from the commonly known facts. Read all the Conclusions and then decide which of the given Conclusions logically follows/ follow the Statements, disregarding the commonly known facts.

Statement-1: No River is Water.

Statement-2: All Pound is River.

Statement-3: Some Fresh is Water.

Conclusion-I: Some Fresh is not River.

Conclusion-II: All Water can be Pound.

Which of the above conclusions is/are correct?

- (a) Only Conclusion-I
- (b) Only Conclusion-II
- (c) Both Conclusion-I and Conclusion-II
- (d) None of the conclusions follows

41. If the sum of all possible two-digit numbers formed using four non-zero digits is 880, what is the average of these four digits?

- (a) 3
- (b) 4
- (c) 5
- (d) 6

42. In a family of four, average age of father, mother, son and daughter is 16 years. Father is 5 times as old as the son and mother is 6 times as old as the daughter. After 3 years from now, mother will be thrice as old as the son. What is the present age of father?

- (a) 50 years
- (b) 30 years
- (c) 45 years
- (d) 35 years

Direction for the following 2 (two) items:

Study the following information carefully and answer the questions that follow.

Eight persons—A, B, C, D, E, F, G, and H—live in a building with eight floors, numbered 1 to 8 from bottom to top. Each person occupies a different floor. B lives two floors above D. There are three people between B and A, and A lives on a floor whose number

is a perfect square. E lives immediately above C, and C lives on an odd-numbered floor below A. The number of floors between F and G is equal to the number of floors between H and G, and F lives on a floor above H.

43. How many people live below H?

- (a) 1
- (b) 2
- (c) 3
- (d) None

44. What is the difference between the floor numbers of B and E?

- (a) 3
- (b) 5
- (c) 6
- (d) 2

45. A solution contains A and B in the ratio of 3 : 5. 16 liters of the solution is replaced with A to change the ratio to 5 : 3. Find the original quantity of B in the solution.

- (a) 20 litres
- (b) 15 litres
- (c) 25 litres
- (d) 30 litres

46. A and B are two non-zero distinct digits such that $AB \times BA = 6AB6$. Find (A + B).

- (a) 7
- (b) 10
- (c) 13
- (d) 15

47. What is the decimal equivalent of the hexadecimal number 6B5E?

- (a) 23058
- (b) 27048
- (c) 23148
- (d) 27486

**Directions for the following 4 (four) items:**

Read the following **four passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

He lived on a houseboat on the Padma River and daily was in contact with the common folk who comprise the characters in his tales. His affinity with and love for them is evident in the empathy he displays for them all: he writes of families torn asunder by contention and jealousy, of arranged marriages, of child brides, of wandering mendicants, of devotees of Hindu gods, of the rich destroyed by their riches and the poor by their poverty, of teachers and their students, of servants and their masters, of parents and their children; he even writes a few about ghosts and haunted palaces. Though the customs and beliefs are very different from what we are used to in the modern West, Tagore's talent is great enough to get us into the minds of his characters so that they become familiar to us and we can see them as beset with humanity as we are.

48. Which one of the following statements best reflects the central idea of the passage given above?

- (a) Tagore's daily life on the Padma River directly influenced the characters in his stories.
- (b) Tagore's writing reflects deep empathy for ordinary lives, bridging cultures and showcasing universal experiences.
- (c) Tagore wrote about a wide range of social issues and character types prevalent in his society.
- (d) Tagore's talent allows readers from different cultural backgrounds to connect with his characters.

Passage 2

Sustainability and development need to go hand in hand. Our collective actions impact the environment we share, as climate change doesn't distinguish between rich and poor. There is an economy around the environment, and also the economy, in general, is impacted by climate change and its mitigation. The waste we generate, if not properly managed, is a burden to the environment – single-use plastic is an evident example of this use-and-throw culture of waste

generation we have developed over the years. This poses a challenge and also an underlying opportunity.

49. Which one of the following statements best reflects the critical message of the passage?

- (a) Maximum waste, on a global level, is generated by single-use plastics.
- (b) Economic growth and environmental protection cannot go in parallel.
- (c) India's waste management market has the potential to generate many jobs.
- (d) Community participation is required to work for the development that does not damage the ecosystem.

Passage 3

Many forms of performing arts are under threat today. As cultural practices become standardized, many traditional practices are abandoned. Even in cases where they become more popular, only certain expressions may benefit while others suffer. Music is perhaps one of the best examples of this, with the recent explosion in the popularity of 'World Music'. Though it performs an important role in cultural exchange and encourages creativity that enriches the international art scene, the phenomenon can also cause problems. Many diverse forms of music may be homogenized to deliver a consistent product. In these situations, there is little place for certain musical practices that are vital to the process of performance and tradition in certain communities. Music, dance and theatre are often key features of cultural promotion intended to attract tourists and regularly feature in the itineraries of tour operators.

50. What is the main idea of the passage?

- (a) The standardization of cultural practices leads to a universal increase in the quality and complexity of all performing arts.
- (b) The primary purpose of World Music is to create a single, unified global musical style.
- (c) The globalization of performing arts, while offering benefits, can lead to the suppression of unique cultural expressions.
- (d) The purpose of musical performances is to attract tourists and generate revenue for tour operators.

Passage 4

Most human impacts on the earth's environment have been the result of economic activity of one type or another. These processes take place at various scales (local, regional, national, and global) simultaneously. The interconnected nature of human economic activity is seen in the interaction between subsistence farming and the market, which provides nonfarm work and income as well as goods that may compete with traditional commodities. The primary sector remains integral to the field. The range of forces that affect agriculture includes the physical environment, economic behaviour and demand, and institutional, social and cultural influences; in turn, agriculture affects the natural environment. Among the more prominent forces that affect agriculture are technological change, which has permitted massive productivity increases, and the increasingly global links from growers to consumers. Globalized agribusiness illustrates the central role of large, transnational firms in the organization of these economic activities.

51. Which of the following statements can be inferred from the above passage?

1. Addressing environmental degradation requires a holistic approach that considers the interconnectedness of various economic activities and scales.
2. Technological advancements in agriculture have eliminated the influence of the physical environment on crop production.

Select the correct answer using the codes given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

52. If 5 is added to both the numerator and the denominator of the fractions $\frac{2}{3}$, $\frac{3}{4}$, $\frac{4}{5}$ and $\frac{5}{6}$, then which one of them will have the minimum absolute change in its value?

- (a) $\frac{2}{3}$
- (b) $\frac{3}{4}$
- (c) $\frac{4}{5}$

- (d) $\frac{5}{6}$

53. What will come in place of '?' in the following sequence?

13, 35, 57, 79, 911, ?

- (a) 1110
- (b) 1113
- (c) 1211
- (d) 1512

54. If a number 1746956473 is divided by 10, then what will be the remainder?

- (a) 1
- (b) 6
- (c) 8
- (d) 9

55. A, B and C are distinct three non-zero digits such that $AB \times AB = BCB$, where $BCB > 500$.

Find $A \times B \times C$.

- (a) 52
- (b) 94
- (c) 54
- (d) 84

56. Consider the following sequence:

Q I 1 N 4 7 2 9 B 6 8 H O H L 1 6 1 A L 7 E O

If the even numbers are eliminated from the above sequence, then which will be the 9th element from the extreme left?

- (a) H
- (b) 1
- (c) O
- (d) L

57. Two Statements are given below followed by two Conclusions:

Statements:

All trees are flowers.

Some flowers are seeds

Conclusion I: Some flowers are trees.

Conclusion II: No seed is flower.

Which of the above Conclusions logically follows/follow from the two given Statements, disregarding commonly known facts?



- (a) Only Conclusion I
- (b) Only Conclusion II
- (c) Neither Conclusion I nor Conclusion II
- (d) Both Conclusion I and Conclusion II

58. a, b and c are three distinct prime numbers such that $a + b + c = 74$, and $a < b < c$.

Consider the following statements:

1. $c = 41$ satisfies the condition $a < b < c$.
2. $c = 43$ satisfies the condition $a < b < c$.

Which of the above statements is/are correct?

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

59. A Haryana Roadways bus departs from Kashmiri Gate Bus Stand, New Delhi. At the time of departure, the ratio of female to male passengers is 1:2. The bus stops at Sonipat Bus Stand, where 10 male passengers get off and 5 female passengers board. Finally, it reaches its destination, Panipat Bus Stand, where an equal number of male and female passengers disembark. How many passengers were on the bus initially at Kashmiri Gate Bus Stand?

- (a) 30
- (b) 45
- (c) 36
- (d) 39

60. What is the least possible value of a, such that the number 879a2 is completely divisible by 9?

- (a) 3
- (b) 2
- (c) 1
- (d) 0

Directions for the following 3 (three) items:

Read the following **three passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

Literary realism is part of the realist art movement that started in nineteenth-century France and lasted until the early twentieth century. It began as a reaction to eighteenth-century Romanticism and the rise of the bourgeois in Europe. Works of Romanticism were thought to be too exotic and to have lost touch with the real world. The roots of literary realism lie in France, where realist writers published works of realism in novels and in serial form in newspapers. The earliest realist writers include Honoré de Balzac, who infused his writing with complex characters and detailed observations about society, and Gustave Flaubert, who established realist narration as we know it today. Literary realism existed, in some form, in England before the genre was fully defined. Some critics credit the first British novelists, like Daniel Defoe and Samuel Richardson, as realists, because they wrote about issues related to the middle class.

61. Based on the above passage, the following assumptions have been made:

1. Literary movements are often shaped by and react to preceding artistic and social trends.
2. Literary realism was a spontaneous and isolated movement, unrelated to any historical context.
3. Literary realism was a uniquely French invention, with no precursors outside of France.

Which of the assumptions given above is/are correct?

- (a) 1 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) All 1, 2 and 3

Passage 2

But the fate of plastic fibres – perhaps the smallest plastic fragments to reach the ocean – is more complex. Large fibres can break up over days and weeks into even smaller pieces, due to turbulence from breaking waves and ultraviolet radiation from the sun. These are called microplastics, and they range in size from five millimetres to specks smaller than bacteria. Microplastics can be eaten by fish – it's estimated that one in three fish eaten by humans contains microplastics. Tinier particles can also be consumed by zooplankton – microscopic animals that float at the

surface – which are then eaten by even larger animals, including whales. Microorganisms can grow on the surface of microplastics too, in a process known as “biofouling” that causes them to sink. Muddy rivers, like the Mississippi or the Amazon, contain clays that settle rapidly when they come into contact with salty ocean water.

62. With reference to the above passage, the following assumptions have been made:

1. Microplastics lead to bio-accumulation in the food chain.
2. River fisheries should be promoted to curb the menace of microplastics as oceans contain more microplastics.
3. Muddy rivers contain more microplastics than clean rivers.

Which of the above assumption(s) is/are valid?

- (a) 1 only
- (b) 1 and 2 only
- (c) 2 and 3 only
- (d) 1, 2 and 3

Passage 3

Equality and justice should not only complement each other but also serve the same purpose. Equality and justice both represent egalitarianism and fairness. Without equality, true justice cannot exist; and without a way to deliver just verdicts that ensure impartial treatment, the meaning of equality is nothing more than an unenforced altruism. From Pericles to modern-day Supreme Court Justices and leaders, the meaning behind “Equal Justice Under Law” has remained the same. However, truth rarely ever completely adheres to theory. In a hypothetical world where our laws, judges, and processes completely followed their intended purposes, we would live in a society that perfectly promoted the due process of law. Although the United States on a global scale serves as a leader for democracy and transparency, internally it still has room for improvement. In every single state, some form of wealth-based discrimination exists in the criminal justice system.

63. With reference to the above passage, which of the following inferences can be drawn?

1. The concepts of equality and justice are interdependent and mutually reinforcing in a just society.
2. The ideal of due process is often compromised by practical limitations and systemic inequalities within real-world legal systems.

Choose the correct answer using the codes given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

64. A steamer travels from Ahiritola to Howrah, a distance of 15 km. From Ahiritola it travels 6 km downstream in 20 minutes and the remaining 9 km upstream to reach Howrah. If the downstream speed is thrice as high as the upstream speed, then what is the average speed of the steamer for the entire journey from Ahiritola to Howrah?

- (a) 10.33 km/hr
- (b) 8.18 km/hr
- (c) 9.57 km/hr
- (d) 10.04 km/hr

65. In a joint family of six members— I, J, K, L, M, and N — K is the brother of N. J is the sister of M's wife. L is the mother of I and the grandmother of N. There are two mothers, three sisters, and one father in the family. Which of the following is the group of sisters?

- (a) IJL
- (b) JKL
- (c) JKN
- (d) IJN

66. If a and b are natural numbers such that $\frac{a}{b} = \text{odd number}$ and $a \times b = 180$, then how many such pairs of a and b are possible?

- (a) 2
- (b) 3
- (c) 4
- (d) 5

67. The ages of Jaya, Shweta, and Aaradhya are in the ratio 5:4:3. Fifteen years ago, the ratio of Jaya's age to Aaradhya's age was 2:1. Which of the following statements is correct?

- (a) Their average age is 60 years
- (b) Jaya's age is 60 years
- (c) Both (a) and (b)
- (d) None of the above

Directions for the following 3 (three) items:

Read the following **two passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

It is in the Arctic that global warming presents its most dramatic face; the region is warming up twice as fast as the global average. The ice cap is shrinking fast — since 1980, the volume of Arctic sea ice has declined by as much as 75 per cent. The Northern Sea Route (NSR) which would connect the North Atlantic to the North Pacific through a short polar arc was once the stuff of fantasy. The melting ice has now made it a reality and a trickle of commercial cargo vessels has been going through every summer since the last decade. Models predict that this route could be ice free in summer by 2050, if not earlier.

68. What inference can be drawn from the passage?

- (a) Melting ice is good for global trade and commerce.
- (b) Northern Sea Route (NSR) connects all the major oceans.
- (c) Global warming is leading to opening up of new trade routes.
- (d) Arctic will be free from ice by 2050.

Passage 2

Temperatures in the Arctic are rising at least twice as fast as the global average and sea ice cover is diminishing by nearly four per cent per decade. The loss of sea ice affects polar bears' ability to find food. Polar bears feed mainly on ringed seals that live at the ice edge, getting two thirds of the energy they need for the entire year in late spring and early summer. With the ice retreating earlier in spring and forming later in

winter, the bears have less time to hunt prey and have to go without food for longer. Scientists have found this can result in a decline in body condition and lower average weight in adult females. Fewer cubs survive and the ones that do are smaller, research suggests. While polar bears have shown some ability to adapt to changes in their surroundings — for example, by foraging for food on land — scientists project polar bears will become more food-stressed as sea ice diminishes and populations will decline.

69. What according to the passage is the most appropriate reason behind the decline in the population of polar bear?

- (a) Decline in body condition and lower average weight has altered the genetic diversity.
- (b) Their dependence on sea ice makes them highly vulnerable to the changing climate.
- (c) Rise in the population of polar bear led to competition for prey.
- (d) Fall in the population of ringed seal due to global warming.

70. What is the most logical and crucial message conveyed by the passage?

- (a) Polar bear cannot survive climate change in the arctic.
- (b) The Arctic is showing more extreme indications of climate change.
- (c) Polar bears are facing food challenges because of global warming.
- (d) Climate change is a major global threat impacting biodiversity.

71. There are two Indian Oil tankers. The first tanker contains 2000 litres of a mixture of ethanol and petrol in the ratio 1:3, while the second tanker contains 5000 litres of the mixture in the ratio 2:3. If both mixtures are poured into a petrol pump container that already has 1000 litres of petrol, what is the percentage of ethanol in the final mixture in the petrol pump container?

- (a) 31.25%
- (b) 32.75%
- (c) 33.25%

(d) 30.75%

72. A Question is given below followed by two Statements I and II.

Question: If HCF of two numbers is 6, then what are the two numbers?

Statement-I: The ratio of these two natural numbers is 19/22.

Statement-II: LCM of these numbers is 2508.

Which of the following is correct in respect of the above Question and the Statements?

- (a) The data in statement I alone is sufficient to answer the question, while the data in statement II alone is not sufficient to answer the question.
- (b) The data in statement II alone is sufficient to answer the question, while the data in statement I alone is not sufficient to answer the question.
- (c) The data in statement I alone or in statement II alone is sufficient to answer the question.
- (d) The data in both the statements I and II together is sufficient to answer the question.

73. How many four-digit numbers can be formed between 2022 and 4482 using the digits 0, 2, 3, 4, 6, and 7?

- (a) 567
- (b) 570
- (c) 569
- (d) 568

74. The sum of the digits of a non-zero four-digit number is 34. If the digits in the units place and the thousands place are interchanged, the number remains the same. How many such numbers are there?

- (a) One
- (b) Two
- (c) Three
- (d) Four

Directions for the following 2 (two) items:

Read the following **two passages** and answer the items that follow each passage. Your answers to these items should be based on the passages only.

Passage 1

With the rise in industrial pollution, global warming has been increasing at a steady pace. Smoke and greenhouse gases are being released by industries into the air which causes an increase in global warming. Melting of glaciers, extinction of polar bears, floods, tsunamis, and hurricanes are a few of the effects of global warming. The issue of industrial pollution concerns every nation on the planet. As a result, many steps have been taken to seek permanent solutions to the problem. Better technology is being developed for the disposal of waste and recycling as much polluted water in the industries as possible. Organic methods are being used to clean the water and soil, such as using microbes that naturally use heavy metals and waste as feed. Policies are being pushed into place to prevent further misuse of land. However, industrial pollution is still rampant and will take many years to be brought under control.

75. With reference to the above passage, which of the following inferences can be drawn?

1. The challenge of climate change and its associated impacts have global repercussions.
2. Nature provides inherent mechanisms for environmental remediation which can be leveraged to mitigate the impact of industrial pollution.

Choose the correct answer using the codes given below.

- (a) 1 only
- (b) 2 only
- (c) Both 1 and 2
- (d) Neither 1 nor 2

Passage 2

India started its AI journey in 2018 when NITI Aayog came out with the National Strategy on AI. However, it did not cover the Defence sector and was majorly for the commercial and private sectors. In the Defence sector, India can be seen as a late entrant but has been making decisive steps for matching up the major powers in terms of investment, indigenous development and bilateral and multilateral partnerships on the adoption of AI. Defence AI Council



(DAIC) and Defence AI Project Agency (DAIPA) have been constituted with Rs 1,000 crore annual budget specifically for AI-enabled projects. Centre for AI and Robotics (CAIR), a laboratory of the Defence Research and Development Organization [DRDO], a primary laboratory for R&D in different areas of Defence Information and Communication Technology (ICT), is developing an AI-based Signal intelligence solution to enhance intelligence collation and analysis capabilities of the armed forces.

76. Which of the following statements can be inferred from the above passage?

1. India's initial focus on AI development was primarily driven by commercial and private sector interests.
2. Indian government primarily focuses on the ethical implications of AI in the defence sector.

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

77. A die is thrown twice. In how many ways can the number appearing on the first throw be greater than or equal to the number on the second throw?

- (a) 15
- (b) 21
- (c) 14
- (d) 16

78. In a certain code language, 'NOTE' is coded as 'MONPSUDF'. How will 'ROAD' be coded as in that language?

- (a) QSNPZBCE
- (b) QSMPZBCE
- (c) QSNQZBCE
- (d) QSNPYBCE

79. There are five vehicles A, B, C, D and E and they have different capacities when it comes to the number of passengers that they can carry.

- i. A has higher capacity than D and E.
- ii. C has lesser capacity than only B.

iii. D carries more passengers than E.

If C carries 62 passengers, then what would be the capacity of vehicle B?

- (a) 53
- (b) 24
- (c) 71
- (d) 49

80. Abhishek, Bobby, and Chandan can complete a project individually in 10 hours, 15 hours, and 6 hours, respectively. If they work together at 50%, 25%, and 20% of their respective efficiencies, how much time will they take to complete the project?

- (a) 3 hours
- (b) 6 hours
- (c) 8 hours
- (d) 10 hours

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