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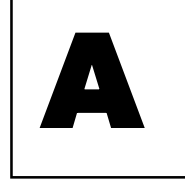


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Test Booklet Series



TEST BOOKLET

GENERAL STUDIES
Paper II

C-A-29-2026

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.**
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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
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Directions for the following 6 (six) items:

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

Passage 1

The last decade has witnessed a profound transformation in the character of warfare. The battlefield is no longer confined to land, sea, air, or even space. It extends across the electromagnetic spectrum, data networks, social media ecosystems, satellite constellations, supply chains, and financial infrastructures. Conflicts are increasingly hybrid, persistent, and below the threshold of declared war. They are accelerated by machine learning, shaped by predictive analytics, and mediated by autonomous systems. States that successfully integrate AI into their national security architectures are not merely enhancing capability; they are redefining strategic advantage.

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

- (a) Even when countries are not engaged in open warfare, their critical infrastructure can still be vulnerable to threats from hostile states.
- (b) The nature of warfare is evolving beyond traditional domains to include new and emerging arenas.
- (c) As the nature of warfare evolves, the integration of smart technologies has become crucial for maintaining national security.
- (d) Countries that do not have sovereign AI capabilities are vulnerable to the risks of modern warfare.

Passage 2

The multilateral trading system has been crucial in reducing tariffs and other trade barriers. From the General Agreement on Trade and Tariffs (GATT) to the World Trade Organization (WTO), successive negotiation rounds lowered duties, curbed arbitrary restrictions, and made global commerce more predictable. These rules did not eliminate disputes, but they made them more manageable and gave smaller developing countries a framework to trade without being wholly subject to power politics. For them,

multilateral rules are not a matter of idealism, but of survival. Without this framework, the world would have drifted towards rules shaped by the strongest economies. And in a rapidly changing world order, that is not a small role; it is an essential one.

2. On the basis of the above passage, the following assumptions have been made:

- I. Trade disputes among countries can be fully eliminated.
- II. The WTO plays an indispensable role in promoting fair trade between nations.
- III. The WTO works against developed economies by denying them the ability to impose their terms on others.

Which of the above assumptions is/are valid?

- (a) I only
- (b) I and II
- (c) II only
- (d) II and III

Passage 3

Public administration is a social process by which public organizations use human, financial, and physical resources to accomplish their objectives in a public environment. Public administrators are charged with the responsibility of managing these resources and achieving these objectives through effective planning, organization, direction, and control. However, the complexity of the public environment in which public organizations operate presents a unique set of challenges for public administrators that requires them to be adept at navigating competing interests and demands. This includes navigating the various levels of government, the legal framework within which they operate, and the diverse groups of stakeholders with whom they interact. The role of public administration in shaping and responding to political, social, and economic change is therefore critical to the functioning of modern societies. In order to be effective in this role, public administrators must possess a combination of technical skills, political acumen, and ethical integrity. Ultimately, the success of public administration depends on the ability of public administrators to

balance the demands of the public with the demands of the government, and to work collaboratively to achieve shared goals.

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

- (a) Public administration is a straightforward process that involves the management of resources to achieve objectives in a public environment.
- (b) Public administrators must possess technical skills, political acumen, and ethical integrity to navigate the complexity of the public environment.
- (c) The role of public administration is limited to managing resources and achieving objectives in a public environment.
- (d) The success of public administration depends solely on the ability of public administrators to satisfy the demands of the government.

Passage 4

India's connection with its forests is as ancient as its civilisation. For centuries, these forests were not merely sources of timber or shade but sacred sanctuaries of healing – living pharmacies that sustained human health and ecological balance. Every tree, herb, and shrub had a purpose, and the forest was viewed as a living embodiment of well being. From Ashwagandha for strength to Neem for purification and Tulsi for immunity, these plants represent the essence of natural healing. However, with industrialisation, urbanisation, and overharvesting, this equilibrium has been severely disrupted. The once flourishing herbal groves and forest sanctuaries have given way to concrete jungles, leaving both biodiversity and traditional wisdom at risk.

4. Which one of the following statements best implies the suggestion given by the author of the passage?

- (a) India must undertake large-scale afforestation of medicinal plant species to safeguard its therapeutic heritage.
- (b) Given their valuable therapeutic benefits, plant-based healing systems should be integrated into modern medicine.

- (c) Mindless economic progress alters the ecological balance.
- (d) Forests containing medicinal species must be protected to preserve traditional healthcare systems.

Passage 5

India's air pollution crisis is not due to a lack of awareness, policies or funding. The real issue lies in weak implementation, poor planning and a lack of coordination between different agencies. To improve air quality, stronger enforcement of emission rules and better coordination between pollution control agencies is essential. Besides short-term measures, long-term plans for improvement in air quality should also be made. Another important step is to strengthen local-level planning and public participation. Involving communities, local bodies and experts can help ensure effective fund utilisation and improve transparency and accountability. These steps can bridge the gap between policy formulation and policy implementation, enabling tangible and sustained improvements in air quality on the ground.

5. On the basis of the above passage, the following assumptions have been made:

- I. Greater public participation can help to improve policy outcomes.
- II. A one size fits all approach is not effective to address the problem of air pollution.
- III. India has not focused enough on long term strategies to combat air pollution.
- IV. India's existing emissions standards are inadequate for effectively combating air pollution.

Which of the above assumptions are valid?

- (a) I, II and III only
- (b) III and IV only
- (c) I, II and IV only
- (d) II, III and IV only

6. Which one of the following statements best implies the crux of the passage?

- (a) While India has undertaken various initiatives to tackle air pollution, the issue continues to persist.



(b) The severity of air pollution in India is rising, turning it into a serious public health crisis.

(c) India must move from policy formulation to effective on-ground implementation to achieve measurable improvements in air quality.

(d) India possesses adequate resources and institutional capacity to effectively tackle the challenge of air pollution.

7. How many zeroes are there at the end of the following product?

$$1^5 \times 2^{10} \times 3^{15} \times 4^{20} \times 5^{25} \times \dots \times 30^{150}$$

- (a) 350
- (b) 375
- (c) 525
- (d) 650

8. Let ABC be a three-digit number where A, B, and C are distinct non-zero digits such that the number is prime. Let S be the sum of all possible numbers formed by permuting the digits A, B, and C. If the sum of the digits (A + B + C) is a perfect square greater than 1, then S is always divisible by all of the following EXCEPT?

- (a) 222
- (b) 37
- (c) 74
- (d) 9

9. If $n! > (1 \times 1! + 2 \times 2! + 3 \times 3! + \dots + 19 \times 19!)$ where n is a natural number, what is the smallest value of n?

- (a) 20
- (b) 21
- (c) 22
- (d) 23

10. 10 liters is drawn from a container containing 50 liters of milk. It is replaced with water and the process is repeated one more time. What is the amount of milk remaining in the mixture?

- (a) 32 litres
- (b) 40 litres
- (c) 30 litres
- (d) 25 litres

11. Consider a two-digit number pq, where p is the tens digit and q is the units digit. Let its square be a three-digit number rst, where r, s and t denote its digits. For how many such two-digit numbers does the condition $(p + q)^2 = r + s + t$ hold true?

(Note: The digits are not necessarily distinct.)

- (a) 2
- (b) 3
- (c) 4
- (d) More than 4

12. The total number of street dogs in a locality is less than 1000. When they are arranged in rows of 5, 7, or 9, one dog is left out each time. However, when arranged in rows of 11, no dog is left over. When the same dogs are arranged in rows of 13, how many dogs will remain ungrouped?

- (a) 7
- (b) 8
- (c) 9
- (d) 10

13. A specific transformation is applied to each number in the sequence 35, 95, 16, 76, 17, ... such that the transformed values form a sequence of consecutive prime numbers.

Which of the following is the next number in the sequence?

- (a) 97
- (b) 37
- (c) 38
- (d) 98

14. A retired teacher manages a small home library for school children. His fiction collection includes 23 story books and 41 novels, while his non-fiction section consists of 17 biographies, 8 general knowledge books, and 6 puzzle books. He plans to expand his collection by purchasing 30 additional books in such a way that, after the addition, the number of non-fiction books becomes two-thirds of the number of fiction books. Furthermore, within the non-fiction category, the number of puzzle books should be twice the number of general knowledge books, and the number

of biographies should be exactly 10 more than the number of puzzle books. After purchasing the books, all these conditions are satisfied exactly. How many biographies did he purchase?

- (a) 9
- (b) 12
- (c) 14
- (d) 8

15. In the series CHLOQRSUXBGLP_ _ _ what are the next three letters?

- (a) SUV
- (b) TVW
- (c) UVW
- (d) WXY

16. The recurring decimal representation $3.6727272\dots$ is equivalent to

- (a) $34/9$
- (b) $3672/990$
- (c) $404/110$
- (d) $3672/999$

17. Two Statements S1 and S2 are given below followed by a Question:

S1: The average (arithmetic mean) weight of a group of 51 students is 50 kg.

S2: The weight of the heaviest student in the group does not exceed 100 kg, and the weight of the lightest student is at least 48 kg.

Question: Is there at least one student in the group whose weight is exactly 50 kg?

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

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

18. The remainder, when $1 + (1 \times 2) + (1 \times 2 \times 3) + \dots + (1 \times 2 \times 3 \times \dots \times 500)$ is divided by 6, is

- (a) 1
- (b) 2
- (c) 3
- (d) 4

19. A family consists of seven members: A, B, D, E, G, M, and N. There are two married couples in the family. B is the mother of A, and M is the father of D. G is the daughter of N and the granddaughter of M. E is the husband of N, and N is the sister-in-law of D. It is also given that B is not the wife of M. How is B related to G?

- (a) Mother
- (b) Paternal aunt
- (c) Sister-in-law
- (d) Maternal aunt

20. In a certain year Y, 26th January falls on a Friday. It is given that the following year Y+1 is a leap year. Which of the following statements is definitely correct?

- (a) 15th August of year Y+1 is a Wednesday
- (b) 26th January of year Y+2 is a Monday
- (c) 15th August of year Y is a Tuesday
- (d) 26th January of year Y+2 is a Sunday

Directions for the following 7 (seven) items:

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

Passage 1

Transport is the foundation of participation. When mobility is restrained, access to education, healthcare, work, and public life collapses, especially for persons with disabilities. Even simple trips can require careful planning, turning everyday movement into a major challenge. The consequences go beyond inconvenience. It leads to limited mobility, reduced workforce participation, lower incomes, and entrenched long-term exclusion. Achieving real accessibility therefore needs more than installing ramps or providing adapted vehicles. It requires trained

and sensitized staff, reliable last-mile connections, and clear feedback channels to improve accessibility. Without these elements, persons with disabilities cannot achieve functional mobility.

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

- I. Accessibility for persons with disabilities is narrowly defined by the presence of ramps.
- II. Mobility barriers continue to restrict the full inclusion of persons with disabilities in public spaces.
- III. Persons with disabilities are often subjected to discriminatory remarks.
- IV. Cities should be designed to accommodate the needs of persons with disabilities.

Which of the above assumptions is/are valid?

- (a) I, II and IV
- (b) II only
- (c) I and III
- (d) II and IV only

Passage 2

"Dignity of labour has to be our national duty, it has to be a part of our nature." The workers and labourers are that part of our society that helps in implementing the great ideas born out of the minds of geniuses. We tend to put such geniuses on a pedestal and reward them with status and money. The workers who work behind the scenes are often forgotten about. Their rights, dignity, the standard of living, and even a better work environment, which are fundamental for a human being to survive, are often ignored. After Independence till date, the labour laws in India have revolved around the rights and benefits for the workers while excluding the managerial level employees. Yet after almost 79 years, the workers still face exploitation at the hands of the employers. The Government with bona fide intentions has tried to cover most of the demands of the workers, all these years, while preparing and drafting many labour laws but still at ground level, their minimal implementation is a matter of concern. The new labour codes have tried to cover most aspects but still, challenges prevail. Also, their implementation is to be seen, since the Centre and the states have to work

together, framing rules in conformity and implementing the codes in their true spirit. In this new era, new concepts have come around such as the gig economy, platform workers, freelancers, etc. In such cases, there is no contract with the employer and the traditional employer-employee relationship is bypassed making it impossible for the workers to get any remedy, in the case of a dispute or exploitation, against the employer. On the other hand, the invisible labour and gender inequality still prevail which is a matter of concern since it affects the growth of our economy and, most importantly, affects the lives of women who suffer and are forced to live undignified lives.

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

- I. Labour laws in India are highly restrictive in nature.
- II. There is lack of coordination between centre and states in implementing labour reforms.
- III. The government is not taking enough steps for gig workers and platform workers.
- IV. The government has been flexible in meeting the demands of workers.
- V. Without labour reforms Indian cannot become a manufacturing powerhouse.

Which of the above assumptions is/are valid?

- (a) I, II and IV
- (b) IV only
- (c) III and IV only
- (d) I, II and V

Passage 3

True beauty, wherever it is found, exists for no purpose beyond itself. Flowers, clouds, rivers, peacocks, and butterflies could have evolved to function perfectly well without their ethereal adornments, yet they remain inexplicably beautiful. A butterfly does not flutter to please anyone; it simply follows its natural impulse. A river does not flow to entertain, yet its movement soothes the heart. The koel's effortless summer song seeks no applause; it is simply its expression of being. Human life should be no different. Life has no grand purpose; to live it fully as it unfolds is its purpose. If that

is so, it makes sense to live prudently, mindfully, and practically, to celebrate our gifts, serve others, and make the world a better place. By living meaningfully in the present moment with awareness, gratitude, integrity, and compassion, we can live our lives with grace.

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

- I. We should embrace the present and enjoy it to the fullest.
- II. Purposeless existence is the hallmark of true beauty.

Which of the above assumptions is/are valid?

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

Passage 4

Wealth and awareness allow some to build homes that blend aesthetics with thermal efficiency. They can afford designers who know how to angle windows for cross ventilation, choose insulation wisely, and layer materials to reflect heat. On the other hand, dense informal settlements continue to struggle under corrugated tin or asbestos roofs that trap heat, with roof surfaces often touching 60°C and indoor temperatures going upto 45°C during summer afternoons. Such homes with little insulation and poor ventilation can become unbearable heat traps in Indian cities. This stark disparity highlights how access to thermal comfort is deeply unequal. Recognising cooling as an essential service is therefore urgent. In a warming world, thermal comfort must not be a reward of wealth but the foundation of our built environment. This is not merely idealism but a question of equity which demands that policymakers, markets, and citizens collectively ensure that the risks of extreme heat are mitigated through inclusive policy design.

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

- (a) Cooling should be integrated as a core element of sustainable housing design.

- (b) A comprehensive national policy for heat impact mitigation is urgently needed.

- (c) In times of increasing heat, cooling must be equitably accessible to everyone.

- (d) Urban areas are more susceptible to the impacts of increasing heat than rural regions.

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

- I. Access to thermal comfort largely depends on one's economic status.
- II. As global warming intensifies, heat related disasters will increase.

Which of the assumptions is/are valid?

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

Passage 5

For centuries, mathematics has stood as one of humanity's purest expressions of intellect, a realm shaped by intuition, imagination and long, lonely hours of thought. From Euclid's geometry to Einstein's equations, every breakthrough has carried the unmistakable imprint of human genius. But today, a new kind of thinker is entering the arena. Artificial intelligence, once limited to crunching numbers and automating routine proofs, is now being trained to search for discoveries. In one of the most striking developments, AI systems are helping mathematicians probe the mysterious behaviour of the Navier-Stokes equations, a 200 year old problem that still defies solution. As machines begin to uncover patterns and anomalies humans have missed, a profound question emerges: Is AI becoming the real mathematician now?

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

- I. Artificial intelligence should not be the sole means of solving mathematical problems.
- II. Artificial intelligence will soon replace human mathematicians.

III. Artificial intelligence can help address many mathematical problems that are yet to be solved.

Which of the above assumptions is/are valid?

- (a) I and III
- (b) II only
- (c) III only
- (d) II and III

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

- (a) Applying artificial intelligence to mathematical problems can accelerate the development and understanding of the subject.
- (b) Human intellect has been crucial in the development of mathematical theories.
- (c) As artificial intelligence begins to solve mathematical problems, the role of mathematicians may evolve in uncertain ways.
- (d) The scope of artificial intelligence is expanding beyond the realm of data analysis.

28. Three Statements S1, S2, and S3 are given below with regard to five distinct positive integers A,B,C,D, and E, followed by a Question:

S1: B is greater than A, but smaller than the average of C and D.

S2: D is the second largest number among the five.

S3: The difference between E and B is equal to the difference between D and C.

Question: Which number is the largest among the five?

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

- (a) S1 and S2 together are sufficient to answer the Question.
- (b) S1 and S3 together are sufficient to answer the Question.
- (c) S1, S2, and S3 together are sufficient to answer the Question.
- (d) S1, S2, and S3 together are not sufficient to answer the Question.

29. Two Statements S1 and S2 are given below, followed by a Question:

S1: $n+3$ is a perfect square.

S2: n has exactly two distinct prime factors.

Question: If n is a natural number between 10 and 50, then what is the value of n ?

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

- (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.

30. Akash bought a piece of land for Rs. X and later sold it to Paresh for Rs. Y. If he had sold the land at a price 19% lower than Y, he would have made a profit of 8%. At what price (in terms of Y) should he sell the land to earn a profit of 100%?

- (a) 50% more than Y
- (b) 39% more than Y
- (c) 73% of Y
- (d) 33% more than Y

31. A man walks 1 km to East and then he turns to right and walks 5 km. Again, he turns to left and walks 2 km. After this, he turns to Left and walks 9 km. Now, how far he is from his starting point (shortest distance)?

- (a) 3 km
- (b) 5 km
- (c) 4 km
- (d) 7 km

32. Six friends U, V, W, X, Y, Z visit the museum over six consecutive days from Monday to Saturday, satisfying the following conditions.

1. U visits immediately after W.
2. X visits before Y but not immediately before.
3. V does not visit on Monday or Saturday.
4. Z visits on Wednesday.
5. W does not visit on Friday.



Which of the following **MUST** be true?

- (a) U visits on Friday
- (b) V visits on Thursday
- (c) X visits on Monday
- (d) Y visits on Saturday

33. Two Statements are given followed by two Conclusions:

Statements:

All Architects are Creative.

Some Creative people are Not Wealthy.

Conclusion-I: Some Architects are definitely not wealthy.

Conclusion-II: All architects being wealthy is a possibility.

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

**34. Consider the following sequence of digits:
8357429317653215794337815**

How many odd digits in the sequence are such that they are immediately preceded by an odd digit and immediately followed by an even digit?

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

35. A number of students are seated in a single row, all facing North. B is positioned 15 seats to the right of A and is also 17th from the right end of the row. C is seated 14th from the left end and is 7 seats to the right of A. What is the total number of students in the row?

- (a) 37
- (b) 38
- (c) 39
- (d) 40

36. Three statements S1, S2, and S3 are given regarding the deadlines of four tax filings F1, F2, F3, and F4, which is followed by a Question:

S1: The deadline of F1 is earlier than F2 but later than both F3 and F4.

S2: The deadline of F2 is the latest among all four.

S3: The deadline of F3 is not the earliest.

Question: Which filing has the earliest deadline?

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

- (a) S1 alone is sufficient
- (b) S1 and S2 together are sufficient
- (c) S1 and S3 together are sufficient
- (d) S1, S2, and S3 together are sufficient

37. How many four-digit numbers ending with the digits 83 (i.e., tens digit is 8 and units digit is 3) are divisible by 11?

- (a) 8
- (b) 4
- (c) 9
- (d) 12

38. Two metallic cubes, Cube A and Cube B, are given such that the total surface area of Cube B is four times that of Cube A. Additionally, the mass of Cube B is also four times the mass of Cube A. If the densities of Cube A and Cube B are denoted by u and v respectively (where density is defined as mass divided by volume), which of the following relations is correct?

- (a) $u = v$
- (b) $u = 2v$
- (c) $v = 4u$
- (d) $v = 2u$

39. The average height of a group of people increases by 0.375 inches after some additional people join the group. The average height of the new entrants is 3 inches more than the original group's average height. What is the ratio of the number of people originally present to the number of people who joined later?

- (a) 7 : 1
- (b) 11 : 5
- (c) 5 : 1



(d) 13 : 2

40. A shopkeeper marks the price of an item at 150% above its cost price for a duration of two weeks. During the first week, he offers a discount of 20% on the marked price, while in the second week he offers a discount of 30%. He sells 80% of the total articles in the second week and the remaining 20% in the first week.

What is his overall profit percentage?

- (a) 80%
- (b) 12%
- (c) 16%
- (d) 60%

Directions for the following 6 (six) items:

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

Passage 1

Humans have historically cultivated over 6000 plant species for food. Today, just nine crops account for 66% of total global crop production. The push for agricultural standardization, aimed at maximizing yields and streamlining global markets, has systematically eroded the biodiversity that once defined regional food systems. Crops that evolved over centuries to suit specific local climates are being replaced by a handful of high yielding varieties optimized for industrial farming. This loss of biodiversity is unfolding across the world. As native crops vanish, we not only lose biodiversity, but also the food traditions, ecological knowledge, and cultural identities they sustained.

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

- (a) Dependence on a limited number of food crops may pose significant challenges to food security.
- (b) Native food crops are more resilient to local climatic conditions compared to high-yielding varieties.

(c) The adoption of homogeneous crop varieties not only poses a risk to biodiversity but also contributes to the erosion of associated cultural identities.

(d) Despite its role in increasing agricultural productivity, the commercialization of agriculture has resulted in significant environmental externalities.

Passage 2

The Enlightenment or the Age of Reason, as it came to be known subsequently, marked a sharp break from the past. It clearly identified two enemies: religion and hierarchy, and attempted to displace the centrality accorded to both in social and political life. The Enlightenment men were not irreligious or atheists but they were bitterly opposed to and intolerant of the authoritarian institutions. They questioned blind obedience to authority, whether that of the priest or the ruler. Nothing was any longer sacred and beyond critical scrutiny. This view gave rise to the belief that human beings were capable of creating a future in which freedom, liberty and happiness will be enjoyed by everyone.

42. With reference to the above passage, which of the following is/are the most rational and practical implication/implications?

- I. Equality is a foundational principle of Enlightenment thought.
- II. A hierarchical society fosters contempt among communities.
- III. Individuals should have the freedom to do anything they desire.
- IV. Nothing should be accepted without critical inquiry examination.
- V. Religious values are often in conflict with the principles of the rule of law.

Select the correct answer and using the code given below:

- (a) I, III and IV only
- (b) II and V only
- (c) I and IV only
- (d) II, III and V only

**Passage 3**

India has long relied on oil imports to meet its rapidly growing energy needs, a dependence that raises concerns about energy security. In this context, ethanol blending presents a promising solution, offering India an opportunity to reduce its reliance on imported fuel. Beyond energy security, ethanol production and use support several national priorities. It generates employment, strengthens the “Make in India” initiative, and contributes to environmental goals under the Swachh Bharat Mission. At the same time, it helps boost farmers’ incomes and promotes the concept of turning agricultural waste into valuable resources, creating wealth from waste. This shift towards ethanol is gradually shaping a more balanced and sustainable energy pathway for the country, while also reflecting a broader move towards self-reliance and responsible resource use.

43. Which of the following are the most rational inferences that can be made from the passage?

- I. Improving fuel efficiency is essential for fulfilling increasing energy demands.
- II. In the context of escalating climate change, the transition to renewable energy becomes necessary for meeting energy demands.
- III. If India continues to rely on oil imports, it would never be able to achieve energy security.
- IV. The adoption of ethanol blending in petrol can stimulate rural economic development.
- V. An expansion in ethanol production and blending capacity could support India’s environmental and sustainability goals.

Select the correct answer using the code given below:

- (a) I and IV only
- (b) II, III and V only
- (c) III and V only
- (d) IV and V only

Passage 4

Colonial education, according to Mahatma Gandhi, created a deep sense of inferiority among Indians. It encouraged students to view Western civilisation as superior while weakening their pride in their own rich

cultural heritage. It placed too much emphasis on reading and writing without truly nurturing the individual. He believed that true education should develop not only the mind but also the soul. It should be holistic, combining intellectual growth with moral and practical development. Such an approach, he felt would deepen one’s capacity to think and understand the world in a better way.

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

- I. Indigenous education is superior to Western education.
- II. Education must extend beyond academic learning.
- III. Colonial rule in India was consolidated through the erosion of dignity of its people.

Which of the above assumptions are valid?

- (a) I and II only
- (b) II and III only
- (c) I and III only
- (d) I, II and III

Passage 5

The redesigned Jal Jeevan Mission 2.0 marks a clear shift from building infrastructure to delivering reliable water services. To make this possible, the mission places strong emphasis on source sustainability through measures such as groundwater recharge and rainwater harvesting. These efforts are supported by a lifecycle approach to financing, which strengthens operations and maintenance systems while also improving institutional capacity for long term upkeep. At the same time, the integration of technology, including IoT-based monitoring enhances transparency and improves efficiency in service delivery. If implemented effectively, these measures could advance India’s progress towards SDG 6, which seeks to ensure universal access to safe and sustainable water and sanitation.



45. Which of the following is/are the most rational and logical inference/ inferences that can be made from the passage?

- I. Jal Jeevan Mission 2.0 has the potential to establish India as an example in ensuring the right to clean water.
- II. Water scarcity can be mitigated by ensuring the sustainable management of water resources.

Select the correct answer using the code given below:

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

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

- I. A nominal user fee for water usage can improve the operation and maintenance of Jal Jeevan Mission systems.
- II. Real-time monitoring and feedback helps to improve the quality of water services.

Which of the above assumptions is/ are valid?

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

47. A luxury watch boutique offers a client three different payment structures for a limited edition timepiece. Which option results in the lowest final price for the customer?

- I. Apply a 25% trade-in discount, then subtract a Rs. 1,000 loyalty rebate, and finally add 10% luxury tax.
- II. Add 10% luxury tax first, then apply a 25% trade-in discount, and finally subtract a Rs. 1,000 loyalty rebate.
- III. Subtract a Rs. 1,000 loyalty rebate first, then add 10% luxury tax, and finally apply a 25% trade-in discount.

Select the correct answer using the code given below:

- (a) Option I is the best for the customer.
- (b) Option II is the best for the customer.
- (c) Option III is the best for the customer.
- (d) All options result in the same final price.

48. In a certain code language, 'WATER' is written as 'XBUFSVZSDQ', and 'MINOR' is written as 'NJOPSLHMNQ'.

How will 'ROSES' be written in that language?

- (a) EOQTUSPRNM
- (b) EQTQUMNRSP
- (c) SQPNTRDTR
- (d) SPTFTQNRDR

49. What is the remainder when $(28^{30} + 30^{30})$ is divided by 29?

- (a) 0
- (b) 1
- (c) 2
- (d) 9

50. If $x = 216^4 + 2\sqrt{5}$, then which of the following expressions is equal to 36?

- (a) x^{V5} / x^2
- (b) $\sqrt{(x^{V5} / x^2)}$
- (c) $\sqrt[3]{(x^{V5} / x^2)}$
- (d) $\sqrt[3]{(x^2 / x^{V5})}$

51. Seven consecutive even integers are given. The average of the first five of these integers is denoted by y. What is the average of all seven integers?

- (a) y+2
- (b) y+3
- (c) y+1
- (d) y+5

52. In many countries, dates are written in the format DD-MM-YYYY, whereas in the United States, the format MM-DD-YYYY is used. A travel website converts dates from one format to the other by interchanging the first two components.

A date is considered confusing if:

- I. It represents a valid calendar date in both formats, and
- II. It corresponds to two different days of the year.

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Assuming a non-leap year, how many such confusing dates are possible?

- (a) 120
- (b) 132
- (c) 144
- (d) 156

53. A number X is a non-terminating recurring decimal of the form $X = 0.pqr\ pqr\ pqr\ \dots$, where p , q , and r are distinct digits. If the product of X and an integer Y is itself an integer, which of the following cannot be a possible value of Y ?

- (a) 2997
- (b) -1998
- (c) 198
- (d) 6993

54. Three numbers 2616, 6951 and 9552, when divided by the same number n , leave the same remainder. Which of the following can be a possible value of n ?

- (a) 324
- (b) 578
- (c) 289
- (d) 136

55. Three friends A, B, and C invest money in the ratio 3:4:5 in different banks. The respective annual rates of interest are in the ratio 5:6:8. What is the ratio of the difference between the annual interest earned by A and C to that earned by B and C?

- (a) 24:15
- (b) 16:25
- (c) 15:24
- (d) 25:16

56. A device can write 80 digits in 1 minute. It starts writing natural numbers. The device is stopped after running it for half an hour. It was found that the last number written is complete. The number is:

- (a) 835
- (b) 836
- (c) 837
- (d) 838

57. The ratio of the present ages (in years) of P to Q is equal to the ratio of the present ages (in years) of Q to R. If the present age of Q is 12 years, which of the following can be the sum of the ages (in years) of P, Q, and R (P, Q, R have distinct integer values)?

- (a) 36
- (b) 39
- (c) 42
- (d) 48

58. For which value(s) of n does the sum of the digits of the number $(10^n - 1) \times 10^n + 1$ equal $9n + 1$?

- (a) For $n = 1$ only
- (b) For any positive integer n
- (c) For $n = 0$ only
- (d) Only for even values of n

59. The average age of three sisters is 17 years. When their brother's age is included, the average age of all four becomes an odd integer. If the brother is at least 2 years old, what is the minimum possible age of the brother?

- (a) 3
- (b) 5
- (c) 9
- (d) 13

60. There are 6 coins in a box of the value 33, 13, 27, 14, 35 and 15. The coins are to be distributed equally between two friends in any manner. What is the minimum difference in the total value of coins each friend gets?

- (a) 9
- (b) 13
- (c) 11
- (d) 1

Directions for the following 6 (six) items:

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

Passage 1

India's healthcare system has improved in infrastructure and medical technology, but affordability

remains a key concern. Rising treatment costs and low insurance coverage have created an imbalance. Many people are either not covered or are underinsured. In medical emergencies, they face direct financial exposure leading to high out-of-pocket expenditure. This situation highlights the need to improve insurance systems that can cover people across income groups.

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

- (a) India lacks a universal health insurance system that fully covers all medical costs.
- (b) Healthcare in India is becoming increasingly unaffordable due to rising treatment costs.
- (c) India must enhance its social protection systems to curb rising out-of-pocket spending on health.
- (d) Rising out-of-pocket health expenditure can push low-income families into poverty.

Passage 2

India urgently needs to shift to solar power due to three impending issues. Firstly, India is likely to account for 25% of global energy demand growth over the next two decade. Failure to do so may increase dependence on coal and oil, leading to high economic and environmental costs. Secondly, rampant air pollution emphasizes the need for cleaner energy sources like solar to combat pollution caused by fossil fuels. Lastly, declining groundwater levels and decreasing annual rainfall further underscore the need to diversify energy sources. Unlike coal-based power generation, solar energy requires minimal water, making it a more viable option in a water stressed country like India. In this context, initiatives such as the PM Surya Ghar: Muft Bijli Yojana represent a transformative step towards a renewable energy future. Its successful implementation would not only enhance energy access and sustainability but also provide a significant boost to the domestic economy.

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

- (a) The development and expansion of solar energy capacity will support the sustainable growth of the Indian economy.
- (b) Government intervention is essential to accelerate the expansion of solar energy infrastructure in India.
- (c) Solar energy generation entails relatively low environmental costs compared to fossil fuels.
- (d) The growth of solar energy capacity will increase energy access in rural areas of India.

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

- I. India is expected to become the largest consumer of energy in the next two decades.
- II. With rising environmental costs of fossil fuels, the expansion of renewable energy will become necessary to meet energy demands.

Which of the above assumptions is/are valid?

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

Passage 3

Advancements in science and technology have made gene editing and the creation of genetically modified organisms a reality. It is now possible to alter and modify the genetic makeup of living organisms, leading to significant breakthroughs in agriculture and medicine. Among the various gene editing technologies, CRISPR-Cas9 has gained prominence due to its simplicity, cost effectiveness, and accuracy. However, this technology is accompanied by a range of ethical, social, and safety concerns. Genetic alterations can lead to unintended mutations, with potentially harmful consequences. Further, inadequate oversight during research and testing may undermine transparency and accountability. Experts are therefore divided on its use and suggest that caution must be exercised in its use. They state that while genetic

editing has its utility, ethical responsibility should not be compromised.

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

- I. Genetic editing should not result in detrimental changes to the natural order.
- II. Genetic editing has the potential to expand the application of biotechnology across multiple fields.

Which of the above assumptions is/are valid?

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

Passage 4

In the seventeenth and eighteenth centuries, political theorists argued that rights are given to us by nature or God. This meant that rights were not conferred by a ruler or a society, rather we are born with them. They identified three natural rights of man: the right to life, liberty and property. All other rights were said to be derived from these basic rights. The idea that we are born with certain rights, is a very powerful notion because it implies that no state or organisation should take away what has been given by the law of nature. This conception of natural rights has been used widely to oppose the exercise of arbitrary power by states and governments and to safeguard individual freedom.

65. In the context of India, which one of the following statements best reflects the critical message of the passage?

- (a) The state cannot impose restrictions on individual freedom as it goes against the principles of natural rights.
- (b) Laws enacted by the state should not violate the natural rights of individuals.
- (c) Natural rights of the man should be institutionalized as fundamental rights under the laws of the state.
- (d) The concept of natural rights recognizes the intrinsic worth of every human being.

Passage 5

The Apollo programme was driven by Cold War competition with the Soviet Union. Its objective was clear and urgent: land a human on the Moon before the end of the 1960s and demonstrate technological superiority. NASA achieved this in just eight years, moving from its first human spaceflight to Apollo 11's landing in 1969. The programme was heavily funded, politically prioritised, and narrowly focused. Once that goal was achieved, Apollo ended within a few years. In contrast, NASA's Artemis programme operates in a very different context. There is no single deadline or symbolic finish line. Instead of a one time achievement, NASA is aiming to build a long term human presence on the Moon, with infrastructure that can support sustained exploration and eventually missions to Mars. This shift from speed to sustainability will fundamentally reshape the design and objectives of future lunar missions.

66. What is the most logical inference from the above passage?

- (a) With the launch of NASA's Artemis programme, a new space race to the Moon would begin.
- (b) NASA's Artemis programme has redefined the goals of future lunar missions.
- (c) Humans aim to colonize the Moon through sustained habitation.
- (d) The Artemis programme will drive the next phase of human exploration beyond the Moon.

67. In how many different ways can all the letters of the word MAHARASHTRA be arranged such that every 'R' is immediately followed by an 'H'?

- (a) 7560
- (b) 7580
- (c) 6560
- (d) 6540

68. Two solutions, P and Q, consist of water and milk with different milk concentrations. Beaker A contains a mixture of P and Q in the ratio 2 : 5, while beaker B contains them in the ratio 1 : 1. Equal volumes are taken from both beakers and mixed together, resulting in a solution with 67% milk concentration. If

solution P contains 50% milk, what is the percentage of milk in solution Q?

- (a) 75%
- (b) 76%
- (c) 78%
- (d) 80%

69. An animal farm has 56 goats. Out of these, 21 goats weigh 50 kg or more. The average weight of all the goats is 42.5 kg. What is the maximum possible average weight (in kg) of the goats that weigh less than 50 kg?

- (a) 36
- (b) 37
- (c) 38
- (d) 40

70. If the price of a commodity increases by 25%, then by what percentage must a householder reduce their consumption of that commodity, so as not to increase their expenditure?

- (a) 25%
- (b) 20%
- (c) 15%
- (d) 10%

71. Each labourer working alone can complete a job in 210 days. Work begins with one labourer on the first day, and on every subsequent day, one additional labourer joins the work. How many labourers will be working on the day the job is completed?

- (a) 10
- (b) 20
- (c) 30
- (d) 40

72. Two runners, C and D, compete in a 400m race from point R to point S. In this race, C finishes ahead of D by 40 m. They decide to race again, but this time the starting points are changed. C starts 10 m behind point R (i.e., 10 m farther from S), while D starts 30 m ahead of point R (i.e., 30 m closer to S). What will be the outcome of the second race?

- (a) It will be a tie
- (b) C will win by 1 m

- (c) C will win by 2 m
- (d) C will win by 3 m

73. Consider a rectangle with length L and breadth B such that the ratio of its length to its breadth is 2.5 times the ratio of its perimeter to its length.

Which of the following can be concluded about the ratio L : B?

- I. The ratio L : B is less than 6
- II. The ratio L : B is a natural number

Select the correct answer using the code given below:

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

74. Darpan and Pavan are positioned at points A and B respectively along a river that flows from A to B. In still water, Pavan swims at twice the speed of Darpan. When they swim towards each other from their initial positions, they meet exactly at the midpoint of AB. Now, their starting positions are interchanged: Pavan starts from A and Darpan from B, and they again swim towards each other. They meet at a point C on AB. What is the ratio AC: CB?

- (a) 3:1
- (b) 4:1
- (c) 3:2
- (d) 5:1

75. Puneet had a certain number of chocolates to distribute among his four nephews. He gave one-third of the chocolates along with 4 additional chocolates to the first nephew. The remaining chocolates were then equally distributed among the other three nephews. As a result, the first nephew received n more chocolates than each of the other three nephews. What is the minimum possible value of n, if each nephew receives at least one chocolate?

- (a) 3
- (b) 6
- (c) 7
- (d) 9



76. Which of the following statements is definitely true if k is a prime number?

- (a) $(k! + k)$ is an odd number
- (b) $(k! + k)$ is an even number
- (c) $(k! + k)!$ is an odd number
- (d) $(k! + k)!$ is an even number

77. What is the remainder when $3^{100} + 3^{200} + 3^{300} + \dots + 3^{1000}$ is divided by 11?

- (a) 0
- (b) 3
- (c) 7
- (d) 10

78. If the ratio of the sum of the squares of the first k natural numbers to the square of the sum of the first k natural numbers is $25 : 234$, what is the value of k ?

- (a) 10
- (b) 11
- (c) 12
- (d) 14

79. Two salt solutions have different densities (weight per unit volume). The first solution weighs 0.25 grams per cubic centimetre, while the second weighs 1.2 grams per cubic centimetre. A mixture of these two solutions is prepared such that 1 litre (1000 cubic centimetres) of the mixture weighs 1.01 kg. What is the ratio of the volume of the first solution to that of the second solution in the mixture?

- (a) 1:4
- (b) 2:7
- (c) 3:8
- (d) 5:9

80. The prices of LPG, Diesel, and Petrol were in the ratio $3 : 4 : 5$ in 2010, and in the ratio $5 : 6 : 8$ in 2022. If the price of LPG increased by 120% during this period, what is the percentage increase in the price of Petrol?

- (a) 111.2
- (b) 110.2
- (c) 110.0
- (d) 105.2

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