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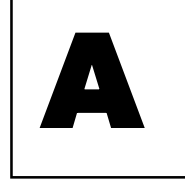


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Test Booklet Series



TEST BOOKLET

GENERAL STUDIES
Paper II

C-A-28-2026

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

Passage 1

More than any other public institution, schools are assigned the task of producing ‘good citizens’, ensuring that when children grow up and leave school, they are prepared to practise the civic virtues most valued in their respective societies. At the same time, however, the question of who means what by ‘citizenship’, ‘civic education’, or even ‘civility’ remains very much contested. Further, it has been argued that citizenship education policy, as expressed in curricula and classrooms, tends to reduce basic knowledge about political institutions and – in part owing to the values and cultural practices of its teachers and administrators – generally rewards students who demonstrate both moral and intellectual conformity.

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

1. The primary goal of citizenship education is to foster critical thinking and independent political judgment.
2. Schools are solely responsible for shaping citizens.

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

A distinction can be drawn between substantive and procedural equality. Substantive equality seeks to ensure individuals experience equality in outcomes, while procedural equality emphasises uniform formal conditions. Substantive equality is paramount, as it regards individuals as ends in themselves and forms the foundation for a subjective sense of equality in worth, income, and possessions. The most pertinent policy domains for embedding equality into society are the economic, legal, and educational systems, given their profound influence on daily life and social coexistence. In economics, equality requires decoupling a person's

abilities from their value. In education, methods must assume equal worth, while in the judiciary, equal strength between parties is essential for fair judgments.

2. Which of the following statements best reflects the logical inference from the passage given above?

- (a) Procedural equality is sufficient for achieving true equality, as it ensures fairness in processes.
- (b) Substantive equality is more important than procedural equality because it focuses on outcomes rather than processes.
- (c) Substantive equality is difficult to achieve due to societal inequalities.
- (d) Procedural equality is often used as a tool to maintain existing inequalities.

Passage 3

Genetically modified crops are usually either tolerant to herbicides or resistant to pest insects. The former reduces the availability of weeds, which supply food for pollinators. The latter often results in lower use of insecticides and may reduce pressure on beneficial insects, including pollinators. However, the sub-lethal and indirect effects of GM crops on pollinators are poorly understood and not usually accounted for in risk assessments. Pollinators are also threatened by the decline of practices based on indigenous and local knowledge. These practices include traditional farming systems, maintenance of diverse landscapes and gardens, kinship relationships that protect specific pollinators, and cultures and languages that are connected to pollinators.

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

- (a) The primary concern with GM crops is their direct effect on the quantity of food sources available to pollinators, which is often overlooked in risk assessments.
- (b) The decline of indigenous practices and knowledge systems can lead to an increase in the effectiveness of GM crops in reducing pollinator pressure.
- (c) The interaction between GM crops and pollinators involves both direct and indirect effects, which are not adequately considered in current risk assessments.

(d) Traditional farming systems and kinship relationships are largely ineffective in mitigating the negative impacts of GM crops on pollinator populations.

Passage 4

The impact of digital media and the Internet on power and society remains unclear. While the radical changes in production, distribution, and alteration of digitised objects suggest significant shifts in “media power,” these effects are not always obvious. Questions arise about how electronic voting might transform democracy, whether citizen journalism and grassroots documentaries alter media power dynamics, and whether peer-to-peer file sharing affects the music industry’s political economy. Additionally, technological determinism often underpins discussions of digital media if technology directly causes societal changes. This perspective overlooks the complex interplay between technology and other factors.

4. Which one of the following statements best reflects the crux of the passage?

- (a) Digital media and the Internet have clearly defined effects on power dynamics and political economy.
- (b) The passage supports technological determinism, which attributes societal changes solely to technological advancements.
- (c) The passage highlights the ambiguity of digital media’s impact, emphasising debates over its effects and the potential oversimplification of technological determinism.
- (d) The passage argues that digital media and the Internet have no significant impact and that these discussions are purely speculative.

5. If $A^{pqr} + B^{qrs} + C^{rst} + D^{stp} = 32$ and $p^{ABC} + q^{BCD} + r^{CDA} + s^{DAB} = N$, where $p, q, r, s, t, A, B, C,$ and D are natural numbers, then the minimum possible value of N is

- (a) 4
- (b) 8
- (c) 16
- (d) None of these

6. Consider the following table:

9	6	7
8	?	3
3	5	8
216	900	168

Select the missing number from the given responses:

- (a) 30
- (b) 55
- (c) 60
- (d) 70

7. Calculate the highest power of n for which $5 \times 125 \times 275 \times 8000 \times 625 \times 55555$ can be divided by 25^n .

- (a) 4
- (b) 7
- (c) 6
- (d) 8

8. Consider the sequence: pp_qrrpq_rppq_ppq_ that follows a certain pattern. Which one of the following completes the sequence?

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

9. A team of X workers is assigned to finish a major project. Originally, this dedicated crew of X men is scheduled to complete the task in 80 days. However, just before they could commence, 10 of these workers unfortunately had to leave due to unforeseen circumstances. As a result, the project timeline was extended by an additional 20 days. Now, imagine a different scenario where instead of the initial team, 100 workers are put on the same project.

How many days will this larger team need to complete the project, given that all workers have the same efficiency?

- (a) 40 days
- (b) 30 days
- (c) 32 days
- (d) 35 days



10. If n is a natural number, how many distinct remainders does $(2^n + 3^n)$ have when divided by 5?

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

11. A small business owner invests a certain amount of money into a project at simple interest. After 6 years, the investment grows to four times its original amount. In how many years will the investment grow to 20 times its original amount?

- (a) 18 years
- (b) 19 years
- (c) 38 years
- (d) 36 years

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

The spectre of regulation looms over AI programming, particularly exemplified by driverless vehicles. In an unregulated market, consumer self-interest could lead to vehicles prioritising passenger safety over pedestrian well-being, exacerbating road fatalities. Additionally, driverless cars have demonstrated a bias toward darker skinned pedestrians, likely due to training data disparities. Addressing such systemic issues is imperative. Ethical considerations extend to animal welfare, with AI ethics confronting the dilemma of prioritising human safety over sentient beings. The valuation of all sentient lives, from vertebrates to invertebrates, presents a complex ethical challenge that AI development must confront.

12. Based on the above passage, the following inferences have been made.

1. Regulation could help mitigate the risks associated with driverless vehicles.
2. AI development should prioritise animal welfare over human safety.

3. AI programming focuses exclusively on maximising passenger safety, ignoring other factors.

Which of the above inferences is/are valid?

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

Passage 2

Global capitalism seems to be placing democracy under considerable stress. Inequality, insecurity, and interdependence have surged globally and appear to be key sources of stress. Populist challenges, from the left as well as the right, to democratic constitutional processes have been growing around the world. Political turmoil is taking place not only in poorer countries with weakly institutionalised political systems but also in advanced industrial countries, which were thought to have stable democratic systems. This, in turn, is having large effects on world politics. Change and instability domestically rebound onto the international system, causing profound and wrenching changes there, too.

13. The passage suggests that the primary threat to global democracy stems from:

- (a) The rise of populist movements in developing countries that undermine democratic processes.
- (b) The increasing scepticism toward national governance due to the influence of international forces.
- (c) The erosion of trust in democratic institutions due to economic inequality and insecurity.
- (d) The impact of changing societal values on democratic norms in both Western and non-Western countries.

Passage 3

The relationship between sectoral growth and poverty reduction has been the subject of extensive research and debate. While agriculture's role in poverty reduction was once paramount, the focus shifted towards broader poverty reduction efforts in the late 20th century. However, empirical evidence suggests that agricultural growth has consistently been more



effective in reducing poverty than growth in other sectors. A study confirms this trend while highlighting nuances and complexities in the relationship, including the impact of structural transformation and financing modalities. The findings emphasise the importance of understanding the differential distributional effects of public investments, which have often been overlooked.

14. Based on the above passage, the following inferences have been made.

1. Agricultural growth is the only effective way to reduce poverty.
2. The relationship between sectoral growth and poverty reduction is complex and multifaceted.
3. Public investments are inherently ineffective in reducing poverty.

Which of the inferences given above is/are correct?

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

15. What is 567th digit in number 123456789101112...?

- (a) 7
- (b) 5
- (c) 9
- (d) 0

16. A company was founded on 1st March 2019, which was a Friday. The company celebrates its anniversary every year on the same date.

On which day of the week will the company celebrate its anniversary in the year 2025?

- (a) Friday
- (b) Saturday
- (c) Sunday
- (d) Monday

17. In how many ways can 7 identical chocolates be distributed among 3 distinct children A, B and C such that:

1. Each child gets at least one chocolate, and
2. Child A gets more chocolates than child B, and

3. Child C does not receive exactly 2 chocolates?

Select the correct answer using the code given below:

- (a) 4
- (b) 6
- (c) 7
- (d) 8

18. A bookshelf has 5 shelves, and each shelf can hold 8 books. If 3 books are placed on each shelf, and then 15 more books are added, what is the average number of books per shelf? However, there's a twist - 2 shelves have only 2 books each due to some space constraints. How many books are on the remaining shelves in total?

- (a) 26
- (b) 24
- (c) 28
- (d) 30

19. A box has Rs. 43.5 in the form of 1-rupee, 50-paise and 25-paise coins in the ratio of 3: 6: 5. What is the total number of coins in the box?

- (a) 78
- (b) 80
- (c) 84
- (d) 75

20. Consider the following statements regarding the sum $S = x \times y - z$, where x , y , and z are prime numbers between 10 to 20.

Statement 1: The unit digit of S can be 3.

Statement 2: The ten's digit of S can be an odd number.

Statement 3: The unit digit of S can be an odd number.

Which of the statements given above is/are correct?

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

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

If the State did not exist, man would find it necessary to invent it. No political arrangement has been so extravagantly worshipped. No arrangement has served as the scapegoat for so many sins. Any State, whether monarchy or republic, is the negation of humanity. Does The State exist? And if it exists, is it omnipotent and benevolent, or is it omnipotent and malevolent, or is it benevolent but not omnipotent, or is it just plain omnipotent? Or perhaps The State does not exist after all. Randolph Bourne, writing just before he died in 1918, presented a feverish double vision of two Americas, each having its history.

21. Based on the passage, which of the following most accurately reflects the author's perspective on the nature of "The State" and its relationship with humanity?

- (a) The State is a necessary evil that, although omnipotent, ultimately works toward the betterment of humanity.
- (b) The State is a contradictory construct, both glorified and blamed, but fundamentally represents a denial of essential human values.
- (c) The State, whether it exists or not, is universally perceived as benevolent due to its role in creating social order.
- (d) Randolph Bourne argued that the State should be abolished entirely to achieve a single, unified history for all nations.

Passage 2

The issue of equal opportunity is often debated despite the equal legal rights afforded to individuals regardless of gender, race, or income. Although the law may provide equal chances, real-life practice reveals a disparity in opportunities due to various societal and familial obstacles. For instance, if women are barred from higher education due to marital expectations, they face an unjust barrier not imposed on men, leading to unequal educational opportunities. Both in personal and professional spheres, it becomes clear that while equality of opportunity is an ideal, success is not guaranteed. Life offers a fair chance but does not ensure equality due to differing individual gifts, capacities, and circumstances.

22. Which one of the following statements best sums up the passage given above?

- (a) Legal equality guarantees that all individuals will achieve the same level of success due to uniform societal and familial support.
- (b) Societal and familial obstacles can undermine the effectiveness of legal equality by creating barriers that disproportionately affect certain groups despite equal legal rights.
- (c) Success is solely determined by the legal framework of equal opportunity, with no influence from personal circumstances or societal norms.
- (d) Equal legal rights ensure that individuals from different backgrounds will experience identical opportunities in all areas of life, including education, health, and employment.

Passage 3

Data collection on health disparities among transgender people is very limited, but the data we do have reveal a healthcare system that is not meeting the needs of the transgender community. In a 2012 needs assessment by the Washington D.C. Trans Coalition, 44 percent of those who identified health as one of their top priorities said that access to transgender-sensitive healthcare was their most significant need. Beyond facing barriers to obtain medically-necessary health services and encountering medical professionals who lacked transgender health care competency, it was found that almost 20 percent of respondents had been refused medical care outrightly because of bias.

23. The above passage implies that

1. Those unfamiliar with the specific health needs of transgender people might portray them as "cosmetic" or merely a choice.
2. Transgender people face significant job loss and job fragility and, therefore, a higher rate of 'uninsurance'.

Which of the above assumptions is/are valid?

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



Passage 4

In the past decade, with the rise in India's economic prowess, the private sector too has become a critical power centre in the decision-making process. The voice of this community has risen along with the rise in Sino-Indian trade. Riding on a wave of increased trade activity, significant outsourcing by Indian companies to Chinese subsidiaries, and large-scale purchases of accessories by Indian power and telecom companies from China, the business houses have developed a large stake in a favourable trade policy with China. China has come to acquire a sizeable intellectual attention from the Indian strategic community. In addition to the China-specific academic and policy-oriented work that the existing think tanks and universities produce, several think tanks with exclusive China focus have been set up in recent years.

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

1. Increased trade activity between India and China has strengthened the influence of the private sector in shaping trade policy decisions.
2. There is a growing recognition of the need for specialised expertise in 'China affairs' within the Indian strategic community.

Which of the statements given above is/are true?

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

25. What is remainder when $8^3 + 8^4 + 8^5 + 8^6 + \dots + 8^{90}$ divided by 7?

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

26. The number of ways in which a student can choose 5 courses out of 9. Among these 9 courses:

1. 2 courses are compulsory and must be included.

2. Out of the remaining 7 courses, 2 courses are mutually exclusive (i.e., both cannot be chosen together).

In how many different ways can the student choose the 5 courses?

- (a) 30
- (b) 25
- (c) 45
- (d) 95

27. In a code, 125 is written as 512 and 343 is written as 1000. How is 729 written?

- (a) 1331
- (b) 1728
- (c) 2197
- (d) 2744

28. A teacher distributed a fixed number of books equally on shelves with none left over. Later, using one additional shelf, each shelf had two fewer books and 8 books were left over.

1. Number of books per shelf initially
2. Total number of shelves initially

Compare 1 and 2:

- (a) $1 > 2$
- (b) $2 > 1$
- (c) $1 = 2$
- (d) Cannot be determined

29. A boat rental charges Rs. 250/hour or Rs. 10/km (whichever is greater) for up to 8 hours. Over 8 hours: Rs. 200/hour or Rs. 8/km (whichever is greater). Ravi travelled 300 km, paid Rs. 2800. How many hours did he rent?

- (a) 16
- (b) 18
- (c) 14
- (d) 12

30. Four investment accounts P, Q, R, S initially have \$500, \$1200, \$800, \$700 respectively. Money doubles every year. After 5 years, which pair has closest balance?

- (a) P and Q



- (b) R and S
- (c) P and S
- (d) Q and S

31. Find wrong term in series: 15, 24, 49, 98, 189, 300, 469?

- (a) 24
- (b) 49
- (c) 189
- (d) 300

32. Consider the following statements:

- A) All economists are analysts.
- B) No analyst is a populist.
- C) Some politicians are populists.

Conclusions:

- 1. No economist is a politician.
- 2. Some politicians are not economists.
- 3. It is possible that some politicians are analysts.

Which of the above conclusion(s) follow?

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

33. In the following series of letter groups:

JEAP QUAD DJIF CAEP SVOR

Each letter is replaced by its alphabetical position (A = 1, B = 2, ..., Z = 26).

The numerical values corresponding to the letters in each group are then written consecutively in the same order to form a number (single-digit values are written as single digits). Each number so formed is then divided by 2.

Which of the following is the highest number obtained?

- (a) 9610759
- (b) 826013
- (c) 125610
- (d) 561159

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

Households and the local economy rely significantly on climate-sensitive sectors, including agriculture and wage labour tied to agricultural production. Households and the local economy in South Sikkim are exposed to a slow-onset climate hazard in the form of winter drought. Both the frequency and magnitude of winter drought have doubled in recent years as a result of local changes in climate. These more frequent and longer periods of winter drought have led to a decline in the availability of water for productive and consumptive use. The Sikkim State Action Plan on Climate Change indicates that water resources, agriculture, biodiversity, forests, ecotourism, hydropower generation, urban habitats, and transport systems are all vulnerable to the impacts of climate change.

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

- 1. Increased frequency and magnitude of winter drought in South Sikkim are primarily caused by climate change.
- 2. The local population is unaware of the risks of climate change.

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

Though it defies consensus, between 1900 and 2006, campaigns of nonviolent resistance were more than twice as effective as their violent counterparts. Attracting impressive support from citizens that helps separate regimes from their main sources of power, these campaigns have produced remarkable results, even in the contexts of Iran, the Palestinian Territories, the Philippines, and Burma. Combining statistical

analysis with case studies of these specific countries and territories, we detail the factors enabling such campaigns to succeed-and, at times, causing them to fail. They find that nonviolent resistance presents fewer obstacles to moral and physical involvement, information and education, and participator commitment. Higher levels of participation then contribute to enhanced resilience, a greater probability of tactical innovation, increased opportunity for civic disruption (and therefore less incentive for the regime to maintain the status quo), and shifts in loyalty among opponents' erstwhile supporters, including members of the military establishment.

35. Which one of the following is the most logical and rational corollary to the above passage?

- (a) Active participation of people is crucial to ensure radical political change.
- (b) Violent insurgency is justifiable on strategic grounds.
- (c) Non-violent action is not only morally right but also an effective method to achieve the desired outcome.
- (d) Non-violent resistance movements can usher in durable and inherently peaceful regime change, especially in military establishments.

Passage 3

In corporate governance, the default rule is of 'one share, one vote,' that is, shareholders are apportioned voting rights proportionate to their share ownership. While this proportionality between cash flow and voting rights aligns the firm's management with economic performance, it can have its own costs. These costs come from a trade-off between short-term opportunism and long-term planning for the company. To mitigate such costs, a deviation from this norm comes in the form of shares carrying differential voting rights ('DVRs'), called 'dual-class shares' in foreign jurisdictions. Put simply, DVR shares give disproportionate voting rights to some shareholders vis-à-vis other shareholders.

36. Which of the following statements best reflects the most logical and rational inference/s that can be made from the above passage?

- 1. The principle of "one share, one vote" aligns managerial incentives with the company's economic performance.
- 2. The adoption of differential voting rights (DVRs) always leads to better long-term planning for the company.
- 3. DVRs represent a deviation from the principle of "one share, one vote."
- 4. The trade-off between short-term opportunism and long-term planning can be mitigated through the use of DVRs.

Select the correct answer using the code given below:

- (a) 1, 3 and 4 only
- (b) 2 and 4 only
- (c) 1 and 3 only
- (d) 3 and 4 only

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

- 1. The use of DVRs suggests that the default corporate governance structure may not always address all management-related challenges.
- 2. Deviating from the "one share, one vote" principle is necessary for achieving long-term planning.

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

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

38. A group consists of 5 men and 4 women. A committee of 4 persons is to be formed such that:

- 1. At least one woman must be included, and
- 2. No two women in the committee belong to the same family (each woman is from a different family).

In how many different ways can the committee be formed?

- (a) 70
- (b) 90
- (c) 110
- (d) 121



39. Determine the units digit of the expression:

$$(52^{45} - 79^{56} + 34^{87} - 41^{98} + 92^{113})?$$

- (a) 1
- (b) 3
- (c) 6
- (d) None of these

40. Consider the following statements:

- A) Only managers are leaders.
- B) Most leaders are visionaries.
- C) Few visionaries are idealists.
- D) Not a single idealist is careless.

Conclusions:

1. Some managers are visionaries.
2. Some leaders are not careless.
3. All idealists are careful.
4. It is possible that some managers are idealists.

Which of the above conclusion(s) follow?

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

41. Two friends A and B play hide and seek. Initially they are standing at same position. A runs in North for 20 m and B runs in South for 15 m. A then runs in West for 40 m and B runs in East for 10 m. A then runs in North for 15 m and B also runs in North for 50 m.

How far apart are the two friends now?

- (a) 0
- (b) 35
- (c) 50
- (d) 60

42. Given below are two statements:

Statement I: If the side of a square is doubled, its area also doubles.

Statement II: The perimeter of a square increases linearly with the length of its side.

In the light of the above statements, select the correct answer from the options given below:

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.

- (c) Statement I is true but Statement II is false
- (d) Statement I is false but Statement II is true.

43. Given below are two statements:

Statement I: If a number is divisible by 4, it must be divisible by 2.

Statement II: If a number is divisible by 2, it must be divisible by 4.

In the light of the above statements, select the correct answer from the options given below:

- (a) Both Statement I and Statement II are true.
- (b) Both Statement I and Statement II are false.
- (c) Statement I is true but Statement II is false.
- (d) Statement I is false but Statement II is true.

44. If x is a prime number and $(x + 4)$ is also a prime number, then consider the following statements.

Statement I: $x(x + 4)^2 + 4(x + 4)^2$ is a perfect cube.

Statement II: $x^2(x^2 + 1) + (x + 4)^2$ is divisible by 2, if $x > 3$.

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

45. There are six numbers forming a G.P. series. If the 4th term is greater than 2nd by 6 and 5th term is greater than 3rd term by 24, then find the difference between 2nd term and 4th term.

- (a) 2
- (b) 4
- (c) 6
- (d) 8

46. How many kilograms of Kashmiri apples priced at Rs. 120 per kg should be mixed with 25 kg of Shimla apples priced at Rs. 140 per kg, in order to sell the mixture at Rs. 130 per kg without any gain or loss in the transaction?

- (a) 35 kg
- (b) 25 kg
- (c) 15 kg



(d) 12 kg

47. A few cards are chosen at random from a standard deck of 52 playing cards without replacement. What is the probability that the first two cards chosen are Ace and the third card is a King?

- (a) $2/5525$
- (b) $3/221$
- (c) $2/221$
- (d) $3/5525$

Directions for the following 4 (four) 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

In the contemporary commercial climate, where businesses are encouraged to invest, diversify, and limit their liabilities, the tendency to establish subsidiaries has grown immensely. In this context, a major question that has arisen is whether a parent company can be bound by the consent to arbitration provided by the subsidiary and vice versa. Ordinarily, due to the operation of a separate legal personality principle, one company or its shareholders are not bound by the actions of the other company. This is also termed as the principle of corporate veil- a protective shield which protects the shareholders from being liable for the actions of the company. So, if one subsidiary signs an arbitration agreement, the holding company or sister subsidiaries would, by implication, not be bound by any of the obligations of the first subsidiary.

48. Which of the following statements best reflect the most logical and rational inference/s that can be made from the above passage?

1. The principle of separate legal personality ensures that a parent company is not automatically bound by the actions of its subsidiaries.
2. Arbitration agreements signed by a subsidiary do not bind the parent company or sister subsidiaries unless otherwise explicitly agreed.
3. The principle of corporate veil serves as a protective shield for shareholders against liability for company actions.

4. The increasing trend of establishing subsidiaries will necessarily lead to complex questions regarding arbitration agreements.

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2 and 4 only

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

1. The principle of corporate veil and separate legal personality principle together can limit the accountability of parent companies for their subsidiaries' actions.
2. Arbitration agreements must explicitly address whether they bind parent or sister companies to avoid disputes.

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

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

Passage 2

Jain philosophy approaches knowledge through the doctrine of anekāntavāda, which holds that reality is complex and cannot be fully captured from a single standpoint. Every assertion, according to this view, reflects a partial truth conditioned by perspective, context, and limitation of the knower. This does not lead to relativism in the sense of denying truth altogether; rather, it emphasises intellectual humility and non-absolutism. Buddhist philosophy, though distinct, arrives at a similar ethical consequence through a different route. By rejecting the notion of a permanent, independent self, Buddhism undermines rigid attachment to views and identities. In both traditions, the insistence on non-finality of claims is closely linked to ethical restraint, as dogmatic certainty is seen as a source of conflict, suffering, and violence.



50. Which one of the following statements best reflects the critical message conveyed by the author of the passage?

- (a) Jainism and Buddhism reject the existence of objective truth and promote complete relativism in philosophical inquiry.
- (b) The philosophical emphasis on the non-finality of knowledge in Jainism and Buddhism is closely linked to ethical restraint and the reduction of conflict arising from dogmatic certainty.
- (c) Jain philosophy is primarily concerned with epistemology, while Buddhist philosophy focuses mainly on metaphysical questions of self and identity.
- (d) Ethical non-violence in Jainism and Buddhism arises chiefly from ritual practices rather than from philosophical reasoning about knowledge and selfhood.

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

1. Ethical conduct is influenced by philosophical views about the nature of knowledge and the self.
2. Dogmatic certainty in beliefs can contribute to conflict, suffering, and violence.
3. Jainism and Buddhism adopt identical philosophical methods to arrive at their ethical teachings.

Which of the assumptions given above is/are valid?

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

52. Raju and Sita were playing with dice. Raju said to her, "The number you get on throwing an unbiased dice will be the amount you will get from me." What is the probability of getting Rs. 15 on throwing the dice three times?

- (a) 2/21
- (b) 5/62
- (c) 4/105
- (d) 5/108

53. Harilal lent a sum of Rs. 5250 at a certain rate of simple interest to Ramlal and another sum of Rs. 6750 at a rate 2% higher than that to Shyamlal. If he earned a total of Rs. 3825 after three years, then what was the rate of interest he charged to Shyamlal?

- (a) 9.5%
- (b) 8.5%
- (c) 9%
- (d) 11.5%

54. Rahul covered 2 km against the wind in t hours and then covered 6 km in the direction of wind in t hours. The speed of the wind was 3 km/hr. What was Rahul's speed when there was no wind?

- (a) 7.2 km/hr
- (b) 8 km/hr
- (c) 4 km/hr
- (d) 6 km/hr

55. A Kabaddi team consists seven players. If a player of age 26 years replaces:

- I. Ajay, then average age of team increases by 0.5 years.
- II. Vijay, then average age of team reduces by 0.5 years.
- III. Sandeep, then average age of team reduces by 1 year.
- IV. Narwal, then average age of team increases by 0.75 years.

Which of the following players is the oldest?

- (a) Sandeep
- (b) Ajay
- (c) Narwal
- (d) Vijay

56. $(72)^3 - (18)^3 - (54)^3$ is divisible by which of the following numbers?

- (a) Both 4 and 18
- (b) Both 4 and 14
- (c) Both 3 and 13
- (d) Both 7 and 12

57. A firm specialises in producing a daily utility product. The manufacturing cost of that product is Rs. 80 per unit, and the firm sells 1200 such units per month. After some research and development, the quality of the product improved and its sales



increased to 2100 units per month. Manufacturing cost of the new improved product also increased by ten percent. If the selling price of the original as well as the improved product was Rs. 100 per unit, then what must have been the increase in firm's monthly profit after the launch of the improved product?

- (a) Rs. 1200
- (b) Rs. 800
- (c) Rs. 1600
- (d) Rs. 1500

58. How many consecutive zeros are there at the end of the product that we get on multiplying the numbers from 101 to 250?

- (a) 25
- (b) 38
- (c) 40
- (d) 62

59. In a super market, Atul purchase two types of rice at the rate of Rs. 35 per kg and Rs. 25 per kg. In what ratio should he mix them to earn a profit of 20% by selling the mixture at Rs. 32 per kg?

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

60. Consider the following statements:

Statement I: If 30% of $x = 45\%$ of $y = 1/5$ of z then, $x : y : z = 4 : 9 : 6$

Statement II: If a is 5 times b , then the percentage by which b is less than a is 80%.

Which of the statements given above is/are correct?

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

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

Engels viewed human consciousness as inseparable from material conditions, arguing that ideas, values, and institutions emerge from historically specific modes of production. Knowledge, in this framework, is not a detached reflection of reality but is shaped by social relations and economic structures. Nietzsche, by contrast, rejected material determinism and instead focused on how values arise from psychological drives and power relations. He questioned claims to universal morality, treating them as expressions of historically dominant perspectives rather than timeless truths. Despite their differences, both thinkers challenged the notion that ideas develop independently of human conditions. However, while Engels emphasised collective social forces, Nietzsche stressed individual will and creative reevaluation as central to philosophical inquiry.

61. Which one of the following statements best reflects the critical message conveyed by the author of the passage?

- (a) Engels and Nietzsche both defend the idea that philosophical ideas emerge independently of material and psychological conditions.
- (b) Despite fundamental differences in emphasis, both Engels and Nietzsche reject the view that ideas and values develop in isolation from concrete human conditions.
- (c) Engels explains the origin of ideas entirely through individual psychology, while Nietzsche attributes them solely to economic structures.
- (d) Nietzsche and Engels arrive at identical conclusions regarding the primacy of collective social forces in shaping human consciousness.

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

1. Human ideas and values are influenced by material, social, or psychological conditions rather than developing independently of them.
2. Thinkers who adopt different philosophical approaches can still share a common critique of the autonomy of ideas.



Which of the assumptions given above is/are valid?

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

Passage 2

In recent years, the increasing reliance on algorithmic decision-making has raised concerns about transparency and accountability. Algorithms are often presented as neutral tools that enhance efficiency and objectivity. However, they are designed, trained, and deployed within specific social and institutional contexts. As a result, they may reflect existing biases embedded in data or assumptions made by their creators. While algorithms can process information at a scale and speed far beyond human capability, their outcomes are not value-free. The challenge, therefore, lies not in rejecting algorithmic systems altogether but in developing frameworks that ensure they are used responsibly, with adequate human oversight and ethical safeguards.

63. Which one of the following statements best captures the central idea of the passage?

- (a) Algorithms should replace human decision-making because they are faster and more efficient.
- (b) Algorithmic systems are inherently objective and free from social or institutional biases.
- (c) The use of algorithms requires ethical oversight since they can reproduce existing biases despite their efficiency.
- (d) Concerns about algorithms are exaggerated and hinder technological progress.

64. x and y can complete a piece of work in 30 days. They both start working together, and after 8 days, z joins them. The work is finished in 10 more days. If the amount of work done by x in 4 days is equal to the amount of work done by z in 2 days, how many days would it take each of them to complete the same work individually?

- (a) x = 25 days, y = 30 days, z = 15 days
- (b) x = 15 days, y = 45 days, z = 25 days
- (c) x = 50 days, y = 25 days, z = 15 days

- (d) x = 50 days, y = 75 days, z = 25 days

65. Consider the Question and the Statements given below.

Question: If x, y and z are working together, how many days will they take to complete the work?

Statement I: x alone can complete the work in 20 days.

Statement II: y is 35% more efficient than x and z is 40% more efficient than y.

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

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

66. Consider the following Question and the Statements.

Question: Rajat and Miraz are going to the same school from the same house. If Rajat doubles his speed, how long would he take to cover the distance to the school?

Statement I: Ratio of the speeds of Rajat and Miraz is 3 : 5.

Statement II: Rajat takes 25 minutes more time to reach the school than that taken by Miraz.

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

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered by using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

67. One fine day, mother of three daughters Sania, Saina and Sindhu (who were not at home) made some sweets for them. Suddenly, her friend Sunita called her and she went to meet her friend. Meanwhile, the mother called her daughters and asked them to distribute the sweets equally among themselves when they reach home. Sania arrived first and ate what she thought was her share of sweets, and left. Then, Saina arrived; she thought she was the first one to arrive and ate the number of sweets that she thought was her share and left. Lastly, Sindhu arrived; she also thought that she was the first one to arrive, and took what she thought was her share. If 48 sweets were left in the bowl finally, what percent of sweets did Sindhu eat?

- (a) 15.23%
- (b) 12.81%
- (c) 14.81%
- (d) 17.63%

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

AI is posed to bring some definitive and permanent changes to the copyrights regime in India and to adjust to this new normal, India needs to align its priorities for creation and distribution of copyright content online by an effective and durable policy framework. This can be ensured by a dedicated Digital Copyright Act that relooks at the safe harbour clause which has protected intermediaries from third-party copyright infringements, provide clarity on ownership rights, address challenges in virtual reality, and strike a balance between fair use provision and public's rights. Essentially, the policy framework needs to be adaptive to the changes and therefore, needs a multi-stakeholder system wherein interests are not compromised, and resources are efficiently utilised.

68. Which of the following statements best reflect the most logical and rational inference(s) that can be made from the above passage?

1. AI is driving significant and permanent changes in the copyright regime in India.
2. A dedicated Digital Copyright Act could address ambiguities in the current copyright regime.
3. Safe harbour provisions need to be reassessed in light of AI-driven copyright challenges.
4. A multi-stakeholder system is essential for creating an adaptive copyright policy framework.

Select the correct answer using the code given below:

- (a) 1 and 2 only
- (b) 1, 3 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 2, 3 and 4

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

1. AI-driven changes necessitate a reevaluation of copyright laws in India.
2. Current copyright laws are insufficient to address challenges posed by emerging technologies.

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

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

Passage 2

When a substantially significant population body is illiterate or does not have easy access to ideas or information, it is important that all available means of communication, particularly audiovisual communication, are utilised not just for entertainment but also for education, information, propagation of scientific ideas and the like. The best way by which ideas can reach this large body of uneducated people is through the entertainment channel which is watched by all-literate and illiterate alike; To earmark a small portion of time of this entertainment medium for the purpose of showing scientific, educational or documentary films, or for showing news films has to be looked at in this context of promoting dissemination of ideas, information and knowledge to the masses so that there may be an informed debate and decision making on public issues.



70. Which of the following statements best reflects the most logical and rational inference/s that can be made from the above passage?

1. Audiovisual communication can play a crucial role in educating and informing the illiterate population.
2. Entertainment channels can be effectively used to disseminate scientific and educational content to a wider audience.
3. Promoting informed debate and decision-making on public issues requires accessibility to ideas and information.
4. The illiterate population relies solely on entertainment channels for information.

Select the correct answer using the code given below:

- (a) 1, 2 and 3 only
- (b) 1, 2 and 4 only
- (c) 2, 3 and 4 only
- (d) 1, 3 and 4 only

71. Consider the following:

1. If $4x^2 - 5x + 1 = 0$, then $x = 1$ is possible.
2. If $x^3 - 6x^2 - 9x + 1 = 0$, then $x = -1$
3. If $(4x - 2)(x - 2) = 0$, then $x = 1/2$ is possible.

Which of the above are correct?

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

72. If $x \leq 7$ is a prime number, then $x^3 + 3$ must be:

- (a) Composite number but not an even number
- (b) Always an odd number
- (c) Always an even number
- (d) None of these

73. Consider the Question and the Statements given below.

Question: What type of regular polygon is this?

Statement I: If one of the interior angles of a regular polygon is equal to $5/4$ th of the interior angle of a regular pentagon.

Statement II: The number of diagonals in the regular polygon is 20.

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

- (a) The Question can be answered by using one of the Statements alone, but cannot be answered using the other Statement alone.
- (b) The Question can be answered by using either Statement alone.
- (c) The Question can be answered by using both the Statements together, but cannot be answered by using either Statement alone.
- (d) The Question cannot be answered even by using both the Statements together.

74. If Z is between 0 and 1, which of the following statements is/are true?

1. $Z^2 - 1$ is a positive integer.
 2. $Z - Z^2 > 0$
 3. $Z^3 - Z > 0$
- (a) 1 only
 - (b) 1 and 2
 - (c) 3 only
 - (d) 2 only

Directions for the following 2 (two) items:

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

Passage 1

In view of the large number of doping cases, as seen in 2022-2023, the solution lies within. Long back Justice Mudgal had recommended that we up the ante on education and awareness programs regarding WADA Code. Dutee may be a star athlete who is caught for doping and her reasons might not be all about lack of awareness. However, its not a lone instance, for the others who have been caught for anti-doping violations, are not all superstars. And the first step to stem the rut is to start young. Not everything can be left to the private sector. The Central Government and the State Government has to invest heavily in developing world class anti-doping education and awareness programs. The first step has to be to incorporate anti-doping awareness programs at school level, and co-opt parents and guardians. Once awareness spreads, more guardians and parents will be



wary of what the trainers, the coaches and the academies are feeding their kids.

75. Which of the following statements best reflect the most logical and rational inference/s that can be made from the above passage?

1. The lack of awareness about the WADA Code is a contributing factor to doping cases in sports.
2. Anti-doping education needs to begin at an early stage in athletes' lives.
3. High-profile doping cases like that of Dutee are the primary focus of anti-doping efforts.
4. Both government and private sector efforts are necessary to combat doping effectively.

Select the correct answer using the code given below:

- (a) 1, 2 and 4 only
- (b) 2 and 3 only
- (c) 1 and 3 only
- (d) 1, 2, 3 and 4

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

1. Anti-doping efforts cannot be successful without involving parents and guardians.
2. Doping violations are often linked to lack of education and awareness among athletes.

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

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

77. A 500-meter-long train starts at a speed of 85 km/h, with its speed increasing by 15 km/h every 2 hours. In how many hours will it cover 1,005 km?

- (a) 9 hr
- (b) 9.5 hr
- (c) 10 hr
- (d) 8 hr

78. Given $X = 2^{95}$ and $Y = (2^{94} + 2^{93} + 2^{92} + 2^{91} + \dots + 2^0)$, then

- (a) Y is larger than X by 2^{64}
- (b) X and Y are equal
- (c) Y is smaller than X by 1
- (d) X is larger than Y by 2

79. An analysis of the monthly incentives received by 5 salesmen is as follows:

- I. The mean and median of the incentives is Rs. 9000.
- II. The mode of the incentives is Rs. 17,000.
- III. Every salesman was given some incentive. Incentives paid to each salesman were in multiple of 500.

What is the ratio between the highest and the lowest incentive received by the 5 salesmen in that month?

- (a) 27:4
- (b) 34:1
- (c) 23:2
- (d) 25:7

80. If $a^{60}b^{39}c^{79} > 0$, then which of the following must be true?

- (a) ab is positive
- (b) bc is positive
- (c) abc is positive
- (d) ac is positive

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