

STAFF SELECTION COMMISSION
COMBINED GRADUATE LEVEL (TIER-I)
SOLVED PAPER

(12th September 2025: Shift-1)

Time Allotted: 1 hour

Max Marks: 200

General Intelligence and Reasoning

1. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series:
WZWT, WVOH, WRGV, WNYJ, ?
1. WJQX 2. WJQW 3. WHPX 4. WJPX
2. In the following questions, select the related word from the given alternatives.
Mekong : Tibet :: Amazon : ?
1. Chile 2. Peru 3. Colombia 4. Ecuador
3. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
CGK, GK O, K O S, O S W ?
1. SDA 2. KNB 3. SWA 4. KJH
4. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
MIN, NJM, OKL, PLK, ?
1. QWS 2. HGF 3. QMJ 4. UJH
5. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series.
BRE, EUH, HXJ, KAL, ?
1. NMB 2. NKH 3. NHG 4. NDN
6. In the following questions, select the related word from the given alternatives.
Watt : Power :: Pascal : ?
1. Energy 2. Temperature
3. Pressure 4. Force
7. Select the letter-cluster from among the given options that can replace the question mark (?) in the following series:
MCFI, NEKP, OGPW, PIUD, ?
1. NKYD 2. QLYL 3. QKZK 4. QKZL
8. What comes next: 3, 12, 7, 16, 11, 20, 15, ?
1. 16 2. 24 3. 14 4. 18
9. Each of the letters in the word STUDENT is arranged in alphabetical order. How many letters are there in the English alphabetical series between the letter that is second from the left and the one that is fourth from the right in the new letter-cluster formed?
1. 17 2. 13 3. 11 4. 15
10. Which of the following addresses are identical to each other?
1. Arjun Mehta A-101, Emerald Towers, Surat, 395001
2. Arjun Mehta A-101, Emerald Tower, Surat, 395001
3. Arjun M. A-101, Emerald Tower, Surat, 395001
4. Arjun Mehta A-101, Emerald Tower, Surat, 395001
1. 1 and 2 2. 1 and 3 3. 2 and 4 4. 3 and 4
11. Which of the following is/are identical to the address given:
Meenal Gupta 102, Silver Oaks, Sector 12, Noida, 201301
1. Meenal Gupta 102, Silver Oaks, Sector 12, Noida, 201301
2. Meenal Gupta 102, Silver Oaks, Sector-12, Noida, 201301
3. Meenal Gupta 102, Silver Oaks, Sector 12, Noida 201301
4. Meenal Gupta 102, Silver Oaks, Sector 12, Noida, 201302
12. Find the option that best completes the analogy.
AG : IO :: CM : ?
1. KO 2. KU 3. KS 4. KW
13. A is facing North, B is seated second to the right of A. Who is sitting immediately to the left of B?
1. The person seated to the immediate right of A
2. The person seated to the opposite to A
3. The person seated to the immediate left of A
4. Cannot be determined
14. In the following question, the second word is related to the first word by a specific pattern of letter transformation. Identify the same pattern and apply it to the third word to find the correct option that completes the analogy.
TIME : VJOG :: WORD : ?
1. YPTF 2. YQTG 3. YPSF 4. ZPSF
15. In each of the following questions, a specific pattern such as reversal or rearrangement has been applied to the first word to get the second. Apply the same pattern to the third word and find the correct answer from the given options.
GNIDAER : READING :: NOITULOS : ?
1. SOLUTION 2. SOLUNOIT
3. NOILOSUT 4. POLLUTION
16. In each of the following questions, the first word is coded to form the second word using a specific rearrangement and/or substitution rule. Apply the same rule to the third word to determine the correct corresponding word from the given alternatives.
AYRRJC : CATTLE :: NCPDCAR : ?
1. SUBJECTS 2. NEGLECT
3. PERFECT 4. OPERATE
17. Identify the odd one: 2, 3, 5, 7, 11, 13, 17, 20
1. 17 2. 13 3. 20 4. 11
18. Which of the following is the odd one out?
1. 2, 3, 5 2. 11, 13, 17 3. 4, 6, 8 4. 17, 19, 23
19. Rani said, "The man in the photo is my mother's son-in-law." Who is the man to Rani?
1. Husband 2. Father 3. Uncle 4. Cousin

20. In each of the following questions, a group of three numbers/symbols is given in each option. Identify the group that does NOT follow the same pattern as the others.
1. K11 : I9 : G7 2. M13 : K11 : I9
 3. O15 : M13 : K11 4. N14 : K11 : H8
21. In each of the following questions, a group of three numbers/symbols is given in each option. Identify the group that does NOT follow the same pattern as the others.
1. A1@ : B2# : C3\$ 2. D4% : E5 ^ : F6&
 3. G7* : H8(: I9) 4. J10 _ : K11@ : L12@
22. Pointing to a man, a woman said, "His mother is the only daughter of my father." How is the man related to the woman?
1. Son 2. Nephew 3. Cousin 4. Grandson
23. Pointing to a woman, John says, "She is the wife of my uncle's only son." How is the woman related to John?
1. Sister 2. Cousin
 3. Sister-in law 4. Niece
24. A man said, "My mother's husband's only son is the father of your sister's brother". How is the man related to you?
1. Uncle 2. Father
 3. Grandfather 4. Brother
25. If # = \times , @ = $-$, \$ = $+$, then evaluate: $9 \# 2 @ 3 \$ 1$
1. 18 2. 14 3. 16 4. 17

General Awareness

26. Where and when will the 59th National Cross Country Championships-2025 be held?
1. 10th January 2025, Lucknow, Uttar Pradesh
 2. 12th January 2025, Meerut, Uttar Pradesh
 3. 15th January 2025, Kanpur, Uttar Pradesh
 4. 12th January 2025, Jaipur, Rajasthan
27. Read the statements about the Goncha Festival of Bastar:
1. Tupki, a mock gun made of bamboo, uses Goncha fruit as bullets.
 2. The chariot procession was started by Chalukya rulers.
 3. Rath Yatra begins on Ashadh Shukla Dashmi and ends on Dutiya.
- Which of the above statements are correct?
1. Only 1 and 2 2. Only 2 and 3
 3. Only 1 and 3 4. 1, 2 and 3 are correct
28. Fill in the blank.
In Carnatic music, a laghu with five beats is known as ____ jaati.
1. Tishra 2. Chaturashra
 3. Khanda 4. Mishra
29. Which of the following statements about Judo is correct?
1. Judo was introduced in 1882 by Jigoro Kano in Japan.
 2. India's first National Judo Championship was held in 1970 at Delhi University.
 3. Kalpana Devi won gold at the 2010 Judo World Cup.
 4. Judo became an Olympic sport in 1965.
30. Which of the following features distinguishes the Elephanta Caves from other rock-out sites of early India?
1. They are primarily Buddhist caves with large stupas.
 2. The caves focus on Shaivite themes and feature sculptural depth through light and shadow.
 3. They contain a mix of Jain Vaishnavite depictions in pillar halls.
 4. The caves are entirely monolithic structures from the Mauryan period.
31. What is the core structural focus of the 2024 India-UAE Bilateral Investment Treaty (BIT) within India's international investment strategy?
1. Proposes joint sovereign funds and links INR swap with UAE banks.
 2. Focuses on pre-establishment rights and UAE-based arbitration.
 3. Assures post-establishment investor confidence via standard and national treatment.
 4. Aims at GCC-wide tax regulation under the India-led digital framework.
32. Fill in the blank.
The Santosh Trophy 2022-23 final was uniquely held in _____, where Karnataka defeated Meghalaya to win the title after 54 years.
1. Dubai 2. Riyadh 3. Doha 4. Muscat
33. Which of the following statements best captures the essence of Landscapes of Loss: The Story of an Indian Drought by Kavitha Iyer?
1. A study on drought's human and ecological impacts in India.
 2. A fictional story about a family in a drought-hit area.
 3. A history of monsoon patterns and ancient agriculture in India.
 4. A colonial-era policy analysis of water management.
34. Consider the following statements about glacial landforms:
- Statement 1:** Hanging valleys are often found opening into main glacial valleys at higher elevations.
- Statement 2:** Spurs of such hanging valleys are frequently truncated into triangular facets.
- Which of the following statements is/are Correct?
1. Only 1 2. Only 2
 3. 1 and 2 are correct 4. Neither 1 nor 2 is correct
35. What is the primary function of the Crew Escape System (CES) on ISRO's Human Rated LVM3 (HLVM3) rocket?
1. To guide the crew module into its designated Low Earth Orbit.
 2. To eject the crew module to safety during launch emergencies.
 3. To assist in docking the crew module with a space station.
 4. To provide thermal shielding during re-entry into Earth's atmosphere.
36. Which of the following statements about Justice Sanjiv Khanna is/are true?
1. He is the 51st Chief Justice of India
 2. He succeeded Justice D.Y. Chandrachud
 3. He served as CJI from 2023
1. 1 and 2 only 2. 2 and 3 only
 3. 1 and 3 only 4. 1, 2 and 3 all are true
37. Which of the following objectives are part of the National Population Policy (NPP) 2000?
1. Providing free and compulsory education up to 14 years of age
 2. Increasing fertility rate to ensure demographic dividend
 3. Reducing infant mortality rate below 30 per 1000 live births
 4. Promoting delayed marriage for girls
1. Only 1 and 2 are correct
 2. Only 1 and 3 are correct
 3. Only 1, 3 and 4 are correct
 4. 1, 2, 3 and 4 all are correct

38. Which pathway in cellular respiration generates the most ATP?
 1. Glycolysis 2. Krebs cycle
 3. Electron transport chain 4. Fermentation
39. Arrange the following events in chronological order.
 a. Eastern Zonal Council meeting 2022
 b. States Reorganisation Act passed
 c. First Central Zonal Council meeting
 1. b-c-a 2. c-b-a 3. a-b-c 4. b-a-c
40. Which of the following most accurately describes the legal character of the right to property under Article 300A of the Indian Constitution?
 1. It is a fundamental right that guarantees compensation for all property acquisitions.
 2. It allows the State to deprive a person of property by any law, even without due process.
 3. It is a constitutional legal right that permits deprivation only by authority of law.
 4. It permits citizens to claim property protection under Article 32 before the Supreme Court.
41. For a rigid body, the angular velocity of any particle about a given axis of rotation is:
 1. Proportional to its distance from the axis
 2. The same for all particles
 3. Inversely proportional to its distance from the axis
 4. Always zero
42. The Bharatiya Sakshya Adhiniyam (BSA) places emphasis on the use of technology to ensure the authenticity of evidence. This is particularly relevant for:
 1. Physical exhibits from crime scenes.
 2. Hand-written diaries.
 3. Digital and electronic evidence.
 4. Oral confessions.
43. Read the below statements marked as Assertion (A) and Reason (R). Mark the correct options:
Assertion (A): The One Nation One Ration Card ensures portability of food grains.
Reason (R): It uses Aadhaar-enabled biometric authentication.
 1. Both A and R are true, and R is the correct explanation of A.
 2. Both A and R are true, but R is not the correct explanation of A.
 3. A is true, but R is false.
 4. A is false, but R is true.
44. Cheraw, the bamboo dance performed using crossed bamboo sticks, is a folk dance of which state?
 1. Mizoram 2. Meghalaya
 3. Arunachal Pradesh 4. Sikkim
45. What is a key factor assessed in the Global Firepower Military Strength Ranking 2025?
 1. Economic Stability 2. Cultural Influence
 3. Defence Budget 4. Healthcare Spending
46. Which of the following correctly describes cooperative sector industries?
 1. Owned and operated by central government agencies.
 2. Operated solely for export purposes.
 3. Owned by workers or suppliers sharing profits and losses
 4. Maintained by foreign companies with Indian partnerships.
47. Education is now placed under which list after the 42nd Amendment?
 1. Union List 2. State List
 3. Concurrent List 4. Judicial List
48. What is the main objective of the National Framework for Climate Services (NFCS) launched in 2024?
 1. To set emission trading targets
 2. To regulate groundwater quality
 3. To deliver sector-specific climate information services
 4. To mandate carbon offsetting in the private sector
49. Argon is produced in Earth's crust via?
 1. Decay of K-40 2. Volcanoes
 3. Photosynthesis 4. Cosmic rays
50. Which of the following is true about Fundamental Rights and DPSPs?
 1. Both are justiciable and enforceable by courts.
 2. DPSPs override Fundamental Rights when in conflict.
 3. Fundamental Rights are justiciable, but DPSPs are not.
 4. The Parliament cannot amend the Fundamental Rights for the implementation of the Directive Principles.

Quantitative Aptitude

51. Arrange the fractions $\frac{5}{9}$, $\frac{4}{7}$, $\frac{3}{5}$ and $\frac{2}{5}$ in ascending order.

1. $\frac{3}{5}$, $\frac{4}{7}$, $\frac{2}{3}$, $\frac{5}{9}$ 2. $\frac{5}{9}$, $\frac{4}{7}$, $\frac{3}{5}$, $\frac{2}{3}$
 3. $\frac{2}{3}$, $\frac{3}{5}$, $\frac{4}{7}$, $\frac{5}{9}$ 4. $\frac{4}{7}$, $\frac{5}{9}$, $\frac{2}{3}$, $\frac{3}{5}$

52. Simplify: $\left(2\frac{1}{2} + 3.6\right) - 1.9$

1. 4.2 2. 5.2 3. 6.2 4. 7.2

53. Evaluate: $7\frac{1}{4} - \left[\frac{5}{6} \div \left\{\frac{1}{3} - \left(\frac{1}{2} \times \left(\frac{3}{4} - \frac{1}{4}\right)\right)\right\}\right]$

1. $-3\frac{1}{4}$ 2. $3\frac{1}{4}$ 3. $-2\frac{3}{4}$ 4. $2\frac{3}{4}$

54. From a sample of 200 software engineers, determine the ratio of those proficient in Python to those proficient in Java using the given information:

Category	Number
Proficient in Python and Java	50
Proficient in Python only	70
Proficient in Java only	60
Proficient in neither language	20

1. 11:12 2. 12:11 3. 7:6 4. 6:7

55. Arvind started a business by investing ₹ 80,000. After 4 months Bhavin joined with ₹ 1,20,000. At the end of 8 months from the start, Chandan joined with ₹ 1,60,000. If the total profit is ₹ 1,05,000 at the end of the year, find the share of Chandan.

1. ₹ 26,500 2. ₹ 26,000 3. ₹ 26,200 4. ₹ 26,250

56. A and B start a business. A invests ₹ 80,000 for 9 months, B invests ₹ 1,20,000 for 6 months. What is B's share of a ₹ 45,000 profit?

1. ₹ 26,500 2. ₹ 28,000 3. ₹ 36,000 4. ₹ 22,500

57. What is the average of all integers between 100 and 250 that are exactly divisible by 11?
1. 176 2. 186 3. 196 4. 146
58. Two oils priced at ₹ 90 per kg and ₹ 150 per kg are blended and sold at ₹ 144 per kg, achieving a profit margin of 20%. What is the ratio of the two oils in the mixture?
1. 1 : 1 2. 2 : 1 3. 3 : 2 4. 4 : 1
59. A landlord bought a flat for ₹ 8,00,000. He wants to earn a 9% annual return on his investment after paying ₹ 2,000 per month for maintenance. What should be the monthly rent he charges?
1. ₹ 7,000 2. ₹ 7,500 3. ₹ 8,000 4. ₹ 8,500
60. An amount is said to double in 5 years with compound interest. How many years will it take for the amount to grow to 8 times its original value?
1. 15 2. 16 3. 17 4. 18
61. A sum becomes ₹ 6,600 in 2 years and ₹ 7,920 in 3 years at compound interest. What is the original principal?
1. ₹ 4,000.33 2. ₹ 5,583.33 3. ₹ 4,583.33 4. ₹ 6,583.33
62. Suman purchased 25 litres of milk at ₹ 45 per litres and another 15 litres of milk at ₹ 50 per litres. She combined both quantities and then sold the entire mixture at ₹ 48 per litres. What was her total profit or loss?
1. Loss of ₹ 45 2. Profit of ₹ 45
3. Profit of ₹ 90 4. Loss of ₹ 90
63. A toy manufacturer produced 1200 toy cars at a total cost of ₹ 90,000. He donated 200 cars to a charity event. For the rest, he announced a 10% discount on the market price of ₹ 120 per car. He also offered 2 toy cars free for every 8 toy cars purchased. If all 1200 toy cars were distributed, what is his overall gain or loss percentage?
1. 4% loss 2. 4% profit 3. 5% loss 4. 5% profit
64. A retailer marks an air conditioner 80% above its cost price. He offers a first discount of 25% on the marked price. During a festive offer, an additional discount of 10% is applied on the already discounted price. If the final selling price is ₹ 15,552, what is the approximate cost price of the air conditioner?
1. ₹ 9,000 2. ₹ 9,200 3. ₹ 12,800 4. ₹ 10,000
65. A 40-litres mixture contains juice and water in the ratio 5:3. How much water (in litres) must be added to this mixture to change the ratio of juice to water to 2:3?
1. 15.5 litres 2. 22.5 litres 3. 25 litres 4. 30 litres
66. A is able to complete a task in 15 days, while B takes 20 days to finish the same task. If they collaborate and work together for 4 days, what fraction of the work will still remain?
1. $\frac{1}{4}$ 2. $\frac{7}{15}$ 3. $\frac{8}{15}$ 4. $\frac{11}{15}$
67. The average of 15 numbers is 80. The average of the first 6 numbers is 72. The average of the next 6 numbers is 25% more than the average of the first 6 numbers. The 13th number is 8 more than the 15th number, and the 14th number is 10 less than the 15th number. What is the average of the 13th and 14th numbers?
1. 70.89 2. 85 3. 75.67 4. 80.65
68. Three pipes, A, B and C, are capable of filling a tank in 6, 8 and 12 hours, respectively. When all three pipes are opened together, they operate for 2 hours before pipe C is closed. How much additional time will it take to completely fill the tank after that?
1. $\frac{6}{7}$ hours 2. $\frac{2}{6}$ hours 3. $\frac{3}{5}$ hours 4. $\frac{9}{2}$ hours
69. A bullet train covers a fixed distance in 30 minutes at an average speed of 240 km/h. Due to track maintenance, it needs to be diverted, increasing the distance by 20%. If the train needs to arrive at its destination on time (i.e., in 30 minutes), what should its new average speed be in km/h?
1. 280 km/h 2. 300 km/h 3. 288 km/h 4. 320 km/h
70. Two cars, X and Y, start from points 360 km apart and travel at constant speeds. If they move towards each other, they meet in 4 hours. If they move in the same direction, they meet in 12 hours. What is the speed of car X? (Assume X is the faster car.)
1. 60 km/h 2. 75 km/h 3. 45 km/h 4. 90 km/h
71. A circular pizza having a radius of 21 cm. If 75% of it is eaten, what is the area of pizza remaining?
1. 173.25 cm² 2. 346.36 cm² 3. 432.25 cm² 4. 115.5 cm²
72. A ring-shaped disc has an outer radius of 10 cm and an inner radius of 7 cm. What is the approximate ratio of the ring's area to the whole outer circle?
1. 1 : 2 2. 2 : 3 3. 3 : 4 4. 4 : 5
73. A bicycle wheel has a radius of 35 cm. What percentage of its circumference is covered in a quarter turn?
(Use $\pi = \frac{22}{7}$)
1. 15% 2. 25% 3. 30% 4. 35%
74. The line $y = mx + 5$ passes through (1,8). Find m .
1. 5 2. 4 3. 3 4. 2
75. $31^3 + 18^3 - 37^3 + 210$ is equal to:
1. -36810 2. -14820 3. 45670 4. -23450

English Comprehension

76. Choose the correct one-word substitute for: 'An official reprimand or strong criticism'.
1. Accusation 2. Denunciation
3. Censure 4. Indictment
77. Choose the correct meaning of idiom:
Hobson's choice
1. A dilemma between two evils
2. A free and fair decision
3. No real choice at all
4. A selection made under duress
78. Select the most appropriate antonym of the given word.
Perfidious
1. Betraying 2. Faithless 3. Loyal 4. Treacherous
79. Identify the misspelt word
1. Vicereine
2. Floccinaucinihilipilification
3. Defenestrate
4. Quintessance
80. Spot the correct spelling of a CSF-shunt procedure.
1. Ventriculoperitoneal 2. Ventriculoperitonal
3. Ventricularperitoneal 4. Ventriculoperetoneal
81. Select the most appropriate synonym of the given word:
PERFIDIOUS
1. Honest 2. Faithful
3. Treacherous 4. Loyal
82. Select the correct option:
The startup scaled so rapidly that its infrastructure could _____ keep pace.
1. barely 2. merely 3. scarcely 4. ail but

83. Select the correct option:
Rare though the phenomenon is, it can occur _____ prolonged drought conditions.
1. towards 2. amid 3. among 4. under
84. Select the correct option:
While the proposal _____ appeared pragmatic on paper, its implementation proved complicated than expected.
1. less 2. more 3. much 4. rather
85. Find the part of the sentence that contains an error:
That the report failed to address the root causes (1)/ of the community unrest were surprising (2)/ given the exhaustive data (3)/compiled over several months. (4)
1. (1) 2. (2) 3. (3) 4. (4)
86. Find the part of the sentence that contains an error:
What renders the draft legislation particularly contentious is not its proposed realignment of fiscal powers per se, (1)/ but that it presumes, without empirical substantiation, (2)/ a fiscal equivalence among states whose developmental baselines are (3)/incommensurable by any normative metric. (4)
1. (1) 2. (2) 3. (3) 4. (4)
87. Change the following from active to passive:
They have been neglecting maintenance of the archives for years.
1. Maintenance of the archives had been neglected by them for years.
2. Maintenance of the archives is being neglected by them for years.
3. Maintenance of the archives was being neglected by them for years.
4. Maintenance of the archives has been being neglected by them for years.
88. Select the sentence containing the homonym of the highlighted word:
The choir began the **introit** at the priest's signal.
1. The child sang the introit during the intermission.
2. The introit was replaced by an organ improvisation.
3. The missal included Latin text for the introit.
4. The cantor rehearsed the Sunday introit.
89. Convert the sentence provided below from its passive voice structure to an active voice structure:
It was being suggested by multiple sources that the operation had been compromised internally.
1. Multiple sources suggested the operation was compromised internally.
2. The operation was compromised, multiple sources suggested.
3. The sources were suggesting an operation compromise.
4. The operation had compromised multiple internal sources.

Directions (90-95): Read the following passage and answer the questions based on the passage:

While education and wisdom are often conflated in colloquial discourse, a discerning mind perceives a fundamental divergence between the two. Education is the formal acquisition of knowledge, often measured through degrees, academic accolades and proficiency in structured disciplines. It is delivered through systematic curricula, institutionalised assessment and theoretical frameworks. However, wisdom transcends this rigidity; it is the judicious application of knowledge to real-life contexts, enriched by experience, introspection and emotional intelligence. An individual may be extensively educated yet remain bereft of wisdom if they lack the discernment to apply their learning ethically and

effectively. Conversely, many wise individuals—farmers, artisans, elders—may not possess formal education, but their decisions exhibit prudence and sagacity cultivated through lived realities. Thus, education equips the mind, but wisdom enriches the soul. In an era dominated by information overload and algorithmic thinking, the schism between the two has widened. Educational institutions often prioritise rote memorisation and standardised testing over critical thinking and moral reasoning. Consequently, society produces individuals proficient in problem-solving but deficient in decision-making that requires empathy, patience, or foresight. Wisdom, being innately human, cannot be downloaded or fast-tracked; it is earned through trial, failure, reflection, and a nuanced understanding of human nature. Furthermore, while education is temporally bounded—ending with formal schooling or academic milestones, wisdom is a lifelong pursuit. It does not boast certificates but manifests in humility, ethical consistency, and the ability to navigate ambiguity with grace. Ultimately, the highest form of intelligence lies not merely in knowing what is right, but in consistently choosing to do it, especially when it is inconvenient.

90. According to the passage, how is wisdom primarily acquired?
1. Through textbooks
2. Through emotional detachment
3. Through experience and reflection
4. Through algorithmic thinking
91. What does the author mean by “wisdom enriches the soul”?
1. It enhances academic success
2. It fosters deeper moral insight
3. It improves verbal expression
4. It sharpens mathematical skills
92. Who, according to the author, can be wise despite formal education?
1. Scientists 2. Farmers 3. Professors 4. Engineers
93. What is the central contrast drawn in the passage?
1. Education vs. career
2. Intelligence vs. memory
3. Reading vs. writing
4. Formal learning vs. applied wisdom
94. According to the author, why has the gap between education and wisdom widened in recent times?
1. Due to the overuse of social media
2. Because wisdom is no longer valued
3. Because of rote learning and algorithmic methods
4. Because people stop learning after school
95. Choose the most suitable option to replace the part of the sentence:
She has the reputation **to be a kind woman**.
1. to have kindness 2. of being a kind woman
3. of being the kind woman 4. to be kind-hearted
96. Choose the most suitable option to replace the highlighted part of the sentence:
The doctor advised him **to avoid eating sweets and doing exercise regularly**.
1. avoiding sweets and doing regular exercise
2. to avoid sweets and to exercise regularly
3. to avoid eating sweets and to exercise regularly
4. to not eat sweets and do exercises
97. A sentence is provided in direct speech. From the four given options, choose the one that corresponding indirect speech.
He asked me, “Have you done your homework?”

1. He asked me if I had done my homework.
 2. He asked me have I done my homework.
 3. He asked me whether I have done my homework.
 4. He asked me whether had I done my homework.
98. A sentence is provided in indirect speech. From the four given options, choose the one that most accurately conveys the sentence in its corresponding direct speech. He said that he would join the meeting after lunch.
1. "I will join the meeting after lunch", he said.
 2. "I would join the meeting after lunch", he said.
 3. "I shall join the meeting after lunch", he said.
 4. "I can join the meeting after lunch", he said.
99. Rearrange the following sentences in correct order to make a logical passage:
1. A media strategy was framed based on outreach results.
 2. Demographic metrics were tracked from campaign dashboards.
 3. User interactions were collected across platforms.
 4. Analysts segmented users by age and behaviour.
1. 3-2-4-1 2. 2-3-1-4 3. 3-1-4-2 4. 4-1-2-3
100. Rearrange the following sentences to form a coherent paragraph:
1. It is a process that involves the systematic and objective investigation of a subject to discover new facts or to confirm existing ones.
 2. Research is a foundational pillar of academic and scientific progress.
 3. This can be either theoretical, aiming to expand knowledge, or applied, seeking to solve a practical problem.
 4. The findings of this investigation are then documented and peer-reviewed to ensure validity and credibility.
1. 2, 1, 3, 4 2. 1,2,4, 3 3. 4,3,2,1 4. 3,4,1,2

Answer Key

1. (1)	2. (2)	3. (3)	4. (3)	5. (4)	6. (3)	7. (3)	8. (2)	9. (2)	10. (3)	11. (1)	12. (2)	13. (1)
14. (1)	15. (1)	16. (3)	17. (3)	18. (3)	19. (1)	20. (4)	21. (4)	22. (1)	23. (3)	24. (2)	25. (3)	26. (2)
27. (1)	28. (3)	29. (1)	30. (2)	31. (3)	32. (2)	33. (1)	34. (3)	35. (2)	36. (1)	37. (3)	38. (3)	39. (1)
40. (3)	41. (2)	42. (3)	43. (1)	44. (1)	45. (3)	46. (3)	47. (3)	48. (3)	49. (1)	50. (3)	51. (2)	52. (1)
53. (3)	54. (2)	55. (4)	56. (4)	57. (1)	58. (1)	59. (3)	60. (1)	61. (3)	62. (2)	63. (1)	64. (3)	65. (2)
66. (3)	67. (3)	68. (1)	69. (3)	70. (1)	71. (2)	72. (1)	73. (2)	74. (3)	75. (2)	76. (3)	77. (3)	78. (3)
79. (4)	80. (1)	81. (3)	82. (1)	83. (4)	84. (2)	85. (2)	86. (2)	87. (4)	88. (2)	89. (1)	90. (3)	91. (2)
92. (2)	93. (4)	94. (3)	95. (2)	96. (3)	97. (1)	98. (1)	99. (1)	100. (1)				

Answers with Explanations

General Intelligence and Reasoning

1. **Option (1) is correct.**
The pattern followed as:

$$W \xrightarrow{+0} W \xrightarrow{+0} W \xrightarrow{+0} W \xrightarrow{+0} W$$

$$Z \xrightarrow{-4} V \xrightarrow{-4} R \xrightarrow{-4} N \xrightarrow{-4} J$$

$$W \xrightarrow{-8} O \xrightarrow{-8} G \xrightarrow{-8} Y \xrightarrow{-8} Q$$

$$T \xrightarrow{-12} H \xrightarrow{-12} V \xrightarrow{-12} J \xrightarrow{-12} X$$
2. **Option (2) is correct.**
As, the Mekong River originates in Tibet, similarly, the Amazon River originates in the Andes (Mountains/Peru).
3. **Option (3) is correct.**
The pattern followed as:

$$C \xrightarrow{+4} G \xrightarrow{+4} K \xrightarrow{+4} O \xrightarrow{+4} S$$

$$G \xrightarrow{+4} K \xrightarrow{+4} O \xrightarrow{+4} S \xrightarrow{+4} W$$

$$K \xrightarrow{+4} O \xrightarrow{+4} S \xrightarrow{+4} W \xrightarrow{+4} A$$
4. **Option (3) is correct.**
The pattern followed as:

$$M \xrightarrow{+1} N \xrightarrow{+1} O \xrightarrow{+1} P \xrightarrow{+1} Q$$

$$I \xrightarrow{+1} J \xrightarrow{+1} K \xrightarrow{+1} L \xrightarrow{+1} M$$

$$N \xrightarrow{-1} M \xrightarrow{-1} L \xrightarrow{-1} K \xrightarrow{-1} J$$
5. **Option (4) is correct.**
The pattern followed as:

$$B \xrightarrow{+3} E \xrightarrow{+3} H \xrightarrow{+3} K \xrightarrow{+3} N$$

$$R \xrightarrow{+3} U \xrightarrow{+3} X \xrightarrow{+3} A \xrightarrow{+3} D$$

$$F \xrightarrow{+2} H \xrightarrow{+2} J \xrightarrow{+2} L \xrightarrow{+2} N$$
6. **Option (3) is correct.**
As, Watt is the SI unit of Power, similarly Pascal is the SI unit of Pressure.
7. **Option (3) is correct.**
The pattern followed as:

$$M \xrightarrow{+1} N \xrightarrow{+1} O \xrightarrow{+1} P \xrightarrow{+1} Q$$

$$C \xrightarrow{+2} E \xrightarrow{+2} G \xrightarrow{+2} I \xrightarrow{+2} K$$

$$F \xrightarrow{+5} K \xrightarrow{+5} P \xrightarrow{+5} U \xrightarrow{+5} Z$$

$$I \xrightarrow{+7} P \xrightarrow{+7} W \xrightarrow{+7} D \xrightarrow{+7} K$$
8. **Option (2) is correct.**
The pattern followed as:

$$3 \xrightarrow{+4} 7 \xrightarrow{+4} 11 \xrightarrow{+4} 15$$

$$12 \xrightarrow{+4} 16 \xrightarrow{+4} 20 \xrightarrow{+4} 24$$
9. **Option (2) is correct.**
The alphabetical order is: DENSTTU
So, the second letter from the left end is E, and the fourth letter from the right end is S. So, the number of letters between E and S in the English alphabetical series is 13.

10. **Option (3) is correct.**
Addresses 2 and 4 are identical to each other.
11. **Option (1) is correct.**
Address 1 is identical to the given address.
12. **Option (2) is correct.**
As, $A \xrightarrow{+8} I$
 $G \xrightarrow{+8} O$
Similarly, $C \xrightarrow{+8} K$
 $M \xrightarrow{+8} U$
13. **Option (1) is correct.**
The correct sitting arrangement is:
A _____ B
So, the person who is sitting to the right of A is seated to the left of B.
14. **Option (1) is correct.**
From the first word to the second, the first, the third and fourth letters move forward 2 letters; also, the second letter moves 1 letter forward.
Hence, the required word will be YPTF.
15. **Option (1) is correct.**
Given: GNIDAER : READING
The first word GNIDAER is the reverse of the second word READING.
Pattern: Reverse the letters.
Now apply the same pattern to the third word:
NOITULOS
Reverse it → SOLUTION
16. **Option (3) is correct.**
From the first word to the second, all letters move forward 2 letters.
Hence, the required word will be PERFECT.
17. **Option (3) is correct.**
20 is the odd one, as the other numbers are prime numbers.
18. **Option (3) is correct.**
Except numbers in the third option, all other options contain prime numbers.
19. **Option (1) is correct.**
Rani's mother's son-in-law is her husband.
20. **Option (4) is correct.**
In all options except option 4, the letters and the numbers are decreased by 2.
21. **Option (4) is correct.**
In all options except option 4, the letters and the numbers are increased by 1, and all the symbols are the shift-symbols on the computer keyboard for the key corresponding to (number + 1).
22. **Option (1) is correct.**
The only daughter of the woman's father is the woman herself. So, the man is the son of the woman.
23. **Option (3) is correct.**
The wife of John's uncle's only son is the wife of John's cousin. Hence, the woman is the sister-in-law of John.
24. **Option (2) is correct.**
The man's mother's husband is his father. And the father of my sister's brother is my father. So, my father is the son of the man's father, i.e, the man is my father.
25. **Option (3) is correct.**
The expression becomes:
 $9 \# 2 @ 3 \$ 1 = 9 \times 2 - 3 + 1 = 18 - 3 + 1 = 19 - 3 = 16$

General Awareness

26. **Option (2) is correct.**
The 59th National Cross Country Championships - 2025 were held on 12 January, 2025, in Meerut, Uttar Pradesh. This event marked the start of the domestic Indian athletics calendar for the year, showcasing top cross-country runners from across the country. The venue for the championships was the Army Golf Course in Meerut.
27. **Option (1) is correct.**
The correct statements about the Goncha Festival of Bastar are 1 and 2. Therefore, the answer is only 1 and 2.
Statement 1 is Correct: The festival features the playful tradition of Tupki (a mock gun made of bamboo) being used to shoot Goncha fruit (a small, wild fruit) using harmless bullets. This mock battle is a unique and cherished part of the celebration.
Statement 2 is Correct: The tradition of the Rath Yatra (Chariot Procession) in Bastar is linked to the historical efforts of the Chalukya rulers of the region, most notably Maharaja Purushottam Dev. He is credited with instituting the practice after visiting Jagannath Puri and receiving blessings and traditions related to the Lord Jagannath chariot festival.
Statement 3 is Incorrect: The Rath Yatra, which is part of the Goncha Festival, begins on Ashadh Shukla Dwitiya (Dutiya), the second day of the bright half of the Hindu lunar month of Ashadh. It does not begin on Ashadh Shukla Dashmi (the tenth day). The Dashmi is typically associated with the return journey or a related ritual, not the commencement of the Yatra.
28. **Option (3) is correct.**
In Carnatic music, a laghu with five beats is known as Khanda Jaati. The term jaati refers to the rhythmic count or number of beats within a laghu, which forms the base of a tala or rhythmic cycle. There are five main types of jaatis: Tishra (3 beats), Chaturashra (4 beats), Khanda (5 beats), Mishra (7 beats), and Sankeerna (9 beats). The Khanda Jaati adds rhythmic diversity and complexity to Carnatic compositions, enhancing their expressive depth.
29. **Option (1) is correct.**
Judo was introduced in 1882 by Jigoro Kano in Japan. It originated as a modern martial art derived from traditional Japanese jujutsu and emphasises techniques of throws, locks, and holds rather than striking. Jigoro Kano founded the Kodokan Institute to promote Judo as both a physical discipline and a moral education system. Judo later became an Olympic sport in 1964, not 1965, making the first statement the only accurate one.
30. **Option (2) is correct.**
The Elephanta Caves are distinct from other early Indian rock-cut sites due to their strong Shaivite themes and remarkable sculptural depth achieved through the play of light and shadow. Located on Elephanta Island near Mumbai, these caves primarily depict Lord Shiva in various forms, such as Nataraja and Ardhanarishvara. The central masterpiece, the Trimurti Sadashiva, reflects exceptional artistry and spiritual symbolism, setting Elephanta apart from predominantly Buddhist or Jain cave traditions.
31. **Option (3) is correct.**
The core structural focus of the 2024 India-UAE Bilateral Investment Treaty (BIT) is to assure post-establishment

investor confidence via standard and national treatment. This means the treaty emphasises protecting investments made after their establishment, ensuring investors receive fair, equitable, and non-discriminatory treatment similar to domestic investors. It aligns with India's reformed model BIT framework, which prioritises safeguarding sovereign policy space while promoting transparent and secure investment environments, marking a shift from earlier pre-establishment investment protection models.

32. Option (2) is correct.

The Santosh Trophy 2022–23 final was uniquely held in Riyadh, the capital of Saudi Arabia, where Karnataka defeated Meghalaya to clinch the title after 54 years. This marked the first time in the tournament's history that the final was played outside India, reflecting growing international collaboration in Indian football. The event highlighted India's expanding sporting ties with West Asian nations and provided global exposure to domestic football talent on an international stage.

33. Option (1) is correct.

The statement that best captures the essence of "Landscapes of Loss: The Story of an Indian Drought" by Kavitha Iyer is that it is a study of human and ecological impacts of droughts in India. The book presents a deeply researched, non-fictional account of how recurring droughts affect farmers, rural livelihoods, gender dynamics and the environment. Through personal narratives and field reporting, Iyer highlights the socioeconomic struggles and systemic neglect that intensify India's agrarian and ecological crises.

34. Option (3) is correct.

Both statements about glacial landforms are correct. Hanging valleys are smaller tributary valleys that join a main glacial valley at a higher elevation, often forming waterfalls where they meet. This occurs because the main glacier erodes its valley floor more deeply than the smaller tributary glacier. Additionally, the spurs or ridges of these hanging valleys are truncated into triangular facets due to intense glacial erosion, forming the characteristic steep and angular topography of glaciated regions.

35. Option (2) is correct.

The primary function of the Crew Escape System (CES) on ISRO's Human Rated LVM3 (HLVM3) rocket is to eject the crew module to safety during launch emergencies. This system is designed to rapidly pull the astronaut-carrying crew module away from the launch vehicle in case of a malfunction or explosion. Using powerful, quick-acting solid motors, the CES ensures astronauts can safely distance themselves from danger and descend via parachutes, making it a critical safety mechanism in human spaceflight missions.

36. Option (1) is correct.

Justice Sanjiv Khanna is the 51st Chief Justice of India, having assumed office on 11 November 2024. He succeeded Justice D.Y. Chandrachud, continuing the judicial leadership of the Supreme Court of India. However, it is incorrect to state that he has served as Chief Justice since 2023, as his tenure officially began in 2024.

37. Option (3) is correct.

The correct objectives that are part of the National Population Policy (NPP) 2000 are 1, 3 and 4. The policy aims to achieve population stabilisation through measures

such as providing free and compulsory education up to 14 years of age, reducing the infant mortality rate below 30 per 1,000 live births, and promoting delayed marriage for girls to improve maternal and child health. However, it does not aim to increase the fertility rate; instead, it seeks to reduce fertility for sustainable population growth and development.

38. Option (3) is correct.

The Electron Transport Chain (ETC) generates the most ATP during cellular respiration. It occurs in the inner mitochondrial membrane, where high-energy electrons from NADH and FADH are transferred through a series of protein complexes. This process drives the production of ATP via oxidative phosphorylation, yielding about 32–34 ATP molecules per glucose molecule. In contrast, glycolysis and the Krebs cycle produce only a small amount of ATP directly, making the ETC the most energy-efficient stage.

39. Option (1) is correct.

The States Reorganisation Act was passed in 1956, leading to the creation of zonal councils to promote interstate cooperation. Following this, the first Central Zonal Council meeting was held, and later, the Eastern Zonal Council meeting took place as part of ongoing regional coordination efforts. Thus, the sequence—(b) States Reorganisation Act passed → (c) First Central Zonal Council meeting → (a) Eastern Zonal Council meeting—is historically accurate.

40. Option (3) is correct.

The right to property under Article 300A of the Indian Constitution is best described as a constitutional legal right that permits deprivation only by authority of law. After the 44th Constitutional Amendment Act of 1978, the right to property ceased to be a fundamental right and became a constitutional legal right. This means that the State can deprive a person of property only through a validly enacted law, ensuring lawful authority but not guaranteeing compensation in every case.

41. Option (2) is correct.

For a rigid body, the angular velocity of any particle about a given axis of rotation is the same for all particles. In rotational motion, every point in a rigid body rotates through the same angle in the same time, regardless of its distance from the axis. However, their linear (tangential) velocities differ, being proportional to the distance from the axis. Thus, while linear speed varies, angular velocity remains uniform throughout the rigid body.

42. Option (3) is correct.

The Bharatiya Sakshya Adhiniyam (BSA) places special emphasis on the use of technology to ensure the authenticity of digital and electronic evidence. This includes emails, CCTV footage, mobile data, and other electronic records. The Act modernises India's evidentiary framework by providing legal recognition and procedural safeguards for digital evidence, ensuring reliability, chain of custody, and prevention of tampering. This focus reflects the increasing importance of technology-driven documentation in modern investigations and judicial proceedings.

43. Option (1) is correct.

Both A and R are true, and R is the correct explanation of A. The One Nation One Ration Card (ONORC) scheme indeed ensures portability of food grains, allowing beneficiaries to access their entitled rations anywhere

in India. This nationwide portability is made possible through Aadhaar-enabled biometric authentication, which verifies beneficiaries' identities in real-time through digital point-of-sale (PoS) systems. Hence, the use of Aadhaar technology directly enables the portability feature, making R the correct explanation of A.

44. Option (1) is correct.

Cheraw, the traditional bamboo dance, is a famous folk dance of Mizoram. In this dance, performers skillfully step in and out of crossed bamboo sticks that are rhythmically tapped on the ground. The dance is often performed during festivals like Chapchar Kut, symbolising joy and celebration. Cheraw reflects the grace, rhythm, and cultural vibrancy of the Mizo people and is one of the oldest and most iconic traditional dances of Mizoram.

45. Option (3) is correct.

In the Global Firepower Military Strength Ranking 2025, a key factor assessed is the defence budget of a nation. This budget reflects the financial capacity of a country to fund its armed forces, procure advanced weaponry, maintain military infrastructure, and support research and development in defence technology. Along with manpower, logistics and natural resources, the defence budget plays a crucial role in determining a country's overall military strength and strategic readiness on the global stage.

46. Option (3) is correct.

Cooperative sector industries are owned by workers or suppliers who share profits and losses collectively. These industries operate on the principles of cooperation, mutual benefit and democratic management. Members contribute resources and participate in decision-making, ensuring equitable distribution of income and responsibilities. Examples include Amul, IFFCO and KRIBHCO, which promote self-reliance and community welfare rather than profit maximisation. Thus, they represent a people-centric approach to industrial development within India's mixed economy.

47. Option (3) is correct.

After the 42nd Amendment Act of 1976, education was moved to the Concurrent List. This means that both the Central and State Governments can make laws on matters related to education. The shift aimed to bring greater uniformity in the national education system while still allowing flexibility for states to address local needs. This amendment strengthened India's educational policy framework by promoting coordination between the Union and State governments in planning and implementation.

48. Option (3) is correct.

The main objective of the National Framework for Climate Services (NFCS), launched in 2024, is to deliver sector-specific climate information services. This initiative aims to provide accurate, timely and localised climate data to key sectors such as agriculture, water, health, energy and disaster management. By enhancing climate resilience and adaptive capacity, NFCS supports informed decision-making and policy planning. It aligns with the World Meteorological Organisation's global framework, helping India strengthen preparedness against climate-related risks.

49. Option (1) is correct.

Argon in the Earth's crust is primarily produced through the decay of potassium-40 (K-40). This radioactive isotope

of potassium undergoes electron capture or positron emission to form argon-40 over geological time scales. The accumulation of argon in rocks and minerals is a key principle behind radiometric dating techniques, such as potassium-argon (K-Ar) dating, used to determine the age of ancient rocks and volcanic materials. Thus, argon originates mainly from K-40 decay, not external processes like volcanism or cosmic rays.

50. Option (3) is correct.

The correct statement is that Fundamental Rights are justiciable, but Directive Principles of State Policy (DPSPs) are not. Fundamental Rights, enshrined in Part III of the Constitution, can be directly enforced by the courts if violated. In contrast, DPSPs, listed in Part IV, serve as guiding principles for governance but are non-justiciable, meaning they cannot be enforced through legal action. However, DPSPs are essential for achieving social and economic justice, complementing Fundamental Rights in promoting welfare.

Quantitative Aptitude

51. Option (2) is correct.

Given fractions are: $\frac{5}{9}, \frac{4}{7}, \frac{3}{5}, \frac{2}{3}$

LCM of 9, 7, 5, 3 = 315

So, $\frac{5}{9} = \frac{175}{315}; \frac{4}{7} = \frac{180}{315};$

$\frac{3}{5} = \frac{189}{315}; \frac{2}{3} = \frac{210}{315}$

The correct ascending order is:

$\frac{175}{315}, \frac{180}{315}, \frac{189}{315}, \frac{210}{315}$ i.e., $\frac{5}{9}, \frac{4}{7}, \frac{3}{5}, \frac{2}{3}$

52. Option (1) is correct.

$$\left(2\frac{1}{2} + 3.6\right) - 1.9 = (2.5 + 3.6) - 1.9 \\ = 6.1 - 1.9 = 4.2$$

53. Option (3) is correct.

$$7\frac{1}{4} - \left[\frac{5}{6} \div \left\{ \frac{1}{3} - \left(\frac{1}{2} \times \left(\frac{3}{4} - \frac{1}{4} \right) \right) \right\} \right] \\ = \frac{29}{4} - \left[\frac{5}{6} \div \left\{ \frac{1}{3} - \left(\frac{1}{2} \times \left(\frac{1}{2} \right) \right) \right\} \right] \\ = \frac{29}{4} - \left[\frac{5}{6} \div \left\{ \frac{1}{3} - \left(\frac{1}{4} \right) \right\} \right] \\ = \frac{29}{4} - \left[\frac{5}{6} \div \left\{ \frac{1}{12} \right\} \right] \\ = \frac{29}{4} - \left[\frac{5}{6} \times 12 \right] = \frac{29}{4} - 10 \\ = \frac{29 - 40}{4} = -\frac{11}{4} = -2\frac{3}{4}$$

54. Option (2) is correct.

Number of software engineers who are proficient in Python

$$= 70 + 50 = 120$$

Number of software engineers who are proficient in Java

$$= 50 + 60 = 110$$

So, required ratio = 120 : 110 = 12 : 11

55. Option (4) is correct.

Total profit = ₹ 105000

According to the question, the ratio of their shares is:

$$12 \times ₹ 80000 : 8 \times ₹ 120000 : 4 \times ₹ 160000 \\ = ₹ 960000 : ₹ 960000 : ₹ 640000 \\ = 3 : 3 : 2$$

$$\text{So, share of Chandan} = \frac{2}{3+3+2} \times 105000$$

$$= \frac{2}{8} \times 105000 = ₹ 26250$$

56. Option (4) is correct.

Total profit = ₹ 45000

According to the question, the ratio of their shares is:

$$9 \times ₹ 80000 : 6 \times ₹ 120000 = ₹ 720000 : ₹ 720000 = 1 : 1$$

$$\text{So, share of B} = \frac{1}{1+1} \times 45000$$

$$= \frac{1}{2} \times 45000 = ₹ 22500$$

57. Option (1) is correct.

The integers between 100 and 250 that are exactly divisible by 11 are:

110, 121, ..., 242

$$\text{Sum of all above integers} = \frac{13}{2} (110 + 242)$$

$$= \frac{13}{2} \times 352 = 2288$$

$$\text{So, average} = \frac{2288}{13} = 176$$

58. Option (1) is correct.

Price of first oil = ₹ 90/kg; Price of second oil = ₹ 150/kg

Selling price of mixture = ₹ 144/kg; Profit = 20%

Selling Price = 1.2 × Cost Price

$$144 = 1.2 \times \text{C.P.}$$

$$\text{C.P.} = \frac{144}{1.2} = ₹ 120/\text{kg}$$

As, mean price = ₹ 120 per kg

So, mean differences are:

$$120 - 90 = ₹ 30 \text{ per kg}$$

$$\text{and } 150 - 120 = ₹ 30 \text{ per kg}$$

Hence, ratio = 30 : 30 = 1 : 1

59. Option (3) is correct.

Given: Cost of flat = ₹ 8,00,000

Desired annual return = 9%

Maintenance = ₹ 2,000 per month

$$\text{As, } 9\% \text{ of } 8,00,000 = \frac{9}{100} \times 8,00,000 = 72,000$$

Rent charge without maintenance

$$= \frac{72000}{12} = 6000$$

Rent charge maintenance

$$= 6000 + 2000 = 8000$$

60. Option (1) is correct.

Let amount = A; time = 5 years; principal = P

According to the question,

$$2P = P \left(1 + \frac{R}{100} \right)^5$$

$$2 = \left(1 + \frac{R}{100} \right)^5$$

Now, if amount = 8P, then

$$8P = P \left(1 + \frac{R}{100} \right)^T$$

$$8 = (2^5)^T$$

$$2^3 = 2^{\frac{T}{5}}$$

$$\frac{T}{5} = 3$$

$$T = 15 \text{ years}$$

61. Option (3) is correct.

Here, amount = ₹ 6600; time = 2 years; principal = P

$$\text{So, } 6600 = P \left(1 + \frac{R}{100} \right)^2$$

$$\left(\frac{6600}{P} \right)^{\frac{1}{2}} = 1 + \frac{R}{100} \quad \dots(i)$$

Now, amount = ₹ 7920; time = 3 years; principal = P

$$\text{So, } 7920 = P \left(1 + \frac{R}{100} \right)^3$$

$$\left(\frac{7920}{P} \right)^{\frac{1}{3}} = 1 + \frac{R}{100} \quad \dots(ii)$$

From (i) and (ii),

$$\left(\frac{6600}{P} \right)^{\frac{1}{2}} = \left(\frac{7920}{P} \right)^{\frac{1}{3}}$$

$$\left(\frac{6600}{P} \right)^{\frac{1}{2} \times 6} = \left(\frac{7920}{P} \right)^{\frac{1}{3} \times 6}$$

$$\left(\frac{6600}{P} \right)^3 = \left(\frac{7920}{P} \right)^2$$

$$P = \frac{6600 \times 6600 \times 6600}{7920 \times 7920} \\ = ₹ 4583.33$$

62. Option (2) is correct.

Given: 25 litres of milk at ₹ 45/litre; 15 litres of milk at ₹ 50/litre

$$\text{Total} = 25 + 15 = 40 \text{ litres}$$

Selling price = ₹ 48/litre

$$\text{Cost price of 25 litres at ₹ 45/litre} = 25 \times 45 = ₹ 1125$$

$$\text{Cost price of 15 litres at ₹ 50/litre} = 15 \times 50 = ₹ 750$$

$$\text{Total cost price} = ₹ (1125 + 750) = ₹ 1875$$

$$\text{Total selling price} = ₹ 40 \times 48 = ₹ 1920$$

$$\text{Profit} = \text{SP} - \text{CP}$$

$$= ₹ 1920 - ₹ 1875 = ₹ 45$$

63. Option (1) is correct.

Given: Total toy cars produced = 1200

Total cost = ₹ 90,000

$$\text{So, cost price per toy car} = ₹ 90,000 \div 1200 = ₹ 75$$

Donated cars = 200

$$\text{Remaining cars for sale} = 1200 - 200 = 1000$$

Market price per car = ₹ 120
 Discount = 10%,
 So, Selling Price (SP) per car

$$= ₹ 120 - 10\% \text{ of } ₹ 120 = ₹ 108$$

 Effective SP per car =
$$\frac{8 \times ₹ 108}{10}$$

$$= \frac{₹ 864}{10} = ₹ 86.40$$

 Total revenue = $1000 \times 86.40 = ₹ 86,400$
 Total cost = ₹ 90,000
 Loss = Cost – Revenue

$$= ₹ 90,000 - ₹ 86,400 = ₹ 3,600$$

 Loss % =
$$\left(\frac{3600}{90000} \right) \times 100 = 4\%$$

64. Option (3) is correct.

Let the original cost price of the air conditioner = ₹ x

So, marked price = $\frac{180}{100} \times x = 1.8x$

After 25% discount, the price becomes

$$1.8x \times (1 - 0.25) = 1.8x \times 0.75 = 1.35x$$

Apply additional 10% discount

$$1.35x \times (1 - 0.10) = 1.35x \times 0.9 = 1.215x$$

According to the question,

$$1.215x = 15552$$

$$x = \frac{15552}{1.215} = 12,800$$

65. Option (2) is correct.

Total mixture = 40 litre; Ratio = Juice : Water = 5 : 3

So, juice = $\frac{5}{8} \times 40 = 25$ litres

And, water = $\frac{3}{8} \times 40 = 15$ litres

Let x litres of water be added, then

$$\frac{25}{15+x} = \frac{2}{3}$$

$$25 \times 3 = 2(15 + x)$$

$$75 = 30 + 2x$$

$$x = 22.5$$

66. Option (3) is correct.

Part of work done by A in 1 day = $\frac{1}{15}$

Part of work done by B in 1 day = $\frac{1}{20}$

So, work done by both A and B together in 4 days

$$= 4 \times \left(\frac{1}{15} + \frac{1}{20} \right)$$

$$= 4 \times \frac{35}{300} = \frac{7}{15}$$

So, part of remaining work = $1 - \frac{7}{15} = \frac{8}{15}$

67. Option (3) is correct.

Given: Average of 15 numbers = 80

So, sum of 15 numbers = $80 \times 15 = 1200$

Average of first 6 numbers = 72

So, sum of first 6 numbers = $72 \times 6 = 432$

Average of next 6 numbers = $\frac{125}{100} \times 72 = 90$

So, sum of next 6 numbers = $90 \times 6 = 540$

Let the 15th number be X .

So, 13th number = $X + 8$

And, 14th number = $X - 10$

As, sum of 15 numbers = 1200

So, $432 + 540 + X + 8 + X - 10 + X = 1200$

$$3X + 970 = 1200$$

$$3X = 230$$

$$X = \frac{230}{3} = 76.67$$

Now, average of 13th and 14th number

$$= \frac{X+8+X-10}{2}$$

$$= \frac{2X-2}{2} = X-1 = 75.67$$

68. Option (1) is correct.

Given: Pipe A fills $\frac{1}{6}$ of the tank per hour;

pipe B fills $\frac{1}{8}$ of the tank per hour

and pipe C fills $\frac{1}{12}$ of the tank per hour.

$$\text{Combined rate} = \frac{1}{6} + \frac{1}{8} + \frac{1}{12}$$

$$= \frac{4}{24} + \frac{3}{24} + \frac{2}{24} = \frac{9}{24} = \frac{3}{8}$$

So, all three together fill $\frac{3}{8}$ of the tank per hour.

Work done in first 2 hours = $2 \times \frac{3}{8} = \frac{6}{8} = \frac{3}{4}$

$$\text{Remaining} = 1 - \frac{3}{4} = \frac{1}{4}$$

After closing pipe C, the combined rate of A and B work

$$= \frac{1}{6} + \frac{1}{8} = \frac{4+3}{24} = \frac{7}{24}$$

$$\text{Time} = \frac{\text{Work remaining}}{\text{Rate}}$$

$$= \frac{\frac{1}{4}}{\frac{7}{24}} = \frac{24}{28} = \frac{6}{7} \text{ hours}$$

69. Option (3) is correct.

$$\text{Time} = 30 \text{ minutes} = \frac{1}{2} \text{ hour}$$

$$\text{Distance} = \text{Speed} \times \text{Time}$$

$$= 240 \times \frac{1}{2} = 120 \text{ km}$$

$$\text{New distance} = 120 + 20\% \text{ of } 120$$

$$= 120 + 24 = 144 \text{ km}$$

$$\text{New speed} = \frac{\text{Distance}}{\text{Time}}$$

$$= \frac{144}{0.5} = 288 \text{ km/h}$$

$$\text{New average speed} = 288 \text{ km/h}$$

70. Option (1) is correct.

Let the speeds of cars X and Y be x km/h and y km/h, respectively.

According to the question,

$$\begin{aligned}(x + y) \times 4 &= 360 \\ x + y &= 90 \quad \dots(1)\end{aligned}$$

$$\begin{aligned}\text{And, } (x - y) \times 12 &= 360 \\ x - y &= 30 \quad \dots(2)\end{aligned}$$

On solving, we get

$$2x = 120 \Rightarrow x = 60$$

So, speed of car $x = 60$ km/h

71. Option (2) is correct.

Radius of circular pizza = 21 cm

Since, 75% of pizza is eaten, so 25% of pizza is remaining.

$$\begin{aligned}\text{Hence, required area} &= \frac{25}{100} \times \pi \times 21 \times 21 \\ &= \frac{1}{4} \times 3.141 \times 21 \times 21 \\ &= 346.3 \text{ cm}^2\end{aligned}$$

72. Option (1) is correct.

Outer radius = 10 cm, inner radius = 7 cm

Area of outer circle = 100π cm²

Area of inner circle = 49π cm²

Hence, area of ring = $100\pi - 49\pi = 51\pi \approx 50\pi$ cm²

So, ratio = $50\pi : 100\pi = 1 : 2$

73. Option (2) is correct.

Radius of wheel = 35 cm

$$\text{Circumference of wheel} = 2\pi r = 2 \times \frac{22}{7} \times 35 = 220 \text{ cm}$$

$$\text{Distance covered in a quarter turn} = \frac{220}{4} = 55 \text{ cm}$$

$$\text{So, required percentage} = \frac{55}{220} \times 100 = 25\%$$

74. Option (3) is correct.

Since, the line $y = mx + 5$ passes through (1, 8), so

$$\begin{aligned}8 &= m(1) + 5 \\ m &= 8 - 5 = 3\end{aligned}$$

75. Option (2) is correct.

$$\begin{aligned}31^3 + 18^3 - 37^3 + 210 &= 29791 + 5832 - 50653 + 210 \\ &= 35833 - 50653 = -14820\end{aligned}$$

English Comprehension

76. Option (3) is correct.

"Accusation" implies a statement saying that you think a person is guilty of doing something wrong or illegal; the fact of accusing somebody. "Denunciation" is a public condemnation of someone or something. "Indictment" means a formal charge or accusation of a serious crime. While an official reprimand or strong criticism is "censure". Example: The act of violence by the student union received strong censure from society.

77. Option (3) is correct.

Hobson's choice refers to the necessity of accepting one of two or more equally objectionable alternatives. Thus, the correct option is: no real choice at all. Example: It felt like a "Hobson's Choice" when I was left with the choice of choosing to stay with my beloved or continuing to stay with my parents.

78. Option (3) is correct.

The word "perfidious" means deceitful and untrustworthy or untrue to what should command one's fidelity or allegiance. As analysed earlier that its synonym is "treacherous", so anything to do with loyalty is its antonym. Thus, the most suitable antonym is "loyal". Other options (1, 2 and 4) are synonyms of the given word.

79. Option (4) is correct.

"Vicereine" refers to the wife of a viceroy. The word "flocinaucinihilipilification" means "the estimation of something as worthless". To "defenestrate" means to throw someone or something out of a window. "Quintessence" is spelt incorrectly; it must be written as "quintessence", which means the most perfect or typical example of a quality or class.

80. Option (1) is correct.

The correct spelling of a CSF shunt procedure is "ventriculoperitoneal".

81. Option (3) is correct.

The word "perfidious" means deceitful and untrustworthy or untrue to what should command one's fidelity or allegiance. Thus, the most suitable synonym is "treacherous". Other options (1, 2 and 4) are antonyms of the given word. Example: The couple who had gone into hiding to escape the wrath of their respective families hardly knew that they had confided their whereabouts to a perfidious friend cum relative.

82. Option (1) is correct.

The startup scaled so rapidly that its infrastructure could barely keep pace. "Merely" means simply; nothing more than. Example: I am merely a small player in the bigger scheme of things. "Scarcely" means almost not at all. Example: Scarcely had I left the house, when my uncle arrived. "Barely" means "only just" or "almost not", and this aligns with the context of the infrastructure struggling to keep up with the rapid scaling.

83. Option (4) is correct.

Rare though the phenomenon is, it can occur under prolonged drought conditions. "Under" is used to indicate the conditions or circumstances in which something occurs, aligning with the idea that the phenomenon happens when prolonged drought conditions are present.

84. Option (2) is correct.

The correct answer is: While the proposal appeared pragmatic on paper, its implementation proved more complicated than expected. The sentence compares two different situations, so the use of the comparative degree of the adjective is mandated ("more complicated"), followed by "than". Thus, "more" is justified here.

85. Option (2) is correct.

The error lies in "of the community unrest were surprising"; it must be written as "of the community unrest was surprising". This is related to the error of subject-verb agreement. The subject is "the failure of the report", which was surprising because the subject is singular, which will be followed by the verb in the singular ("was").

86. Option (2) is correct.

The error lies in "What renders the draft legislation particularly contentious is not its proposed realignment of fiscal powers per se but that it presumes, without empirical substantiation"; it must be written as "but that

it assumes, without empirical substantiation". Assume means to accept something as true without proof, while presume means to believe something is true based on likelihood or evidence. The fact that the draft legislation is without empirical substantiation makes "assumes" the correct alternative. The correct answer is: What renders the draft legislation particularly contentious is not its proposed realignment of fiscal powers per se, but that it assumes, without empirical substantiation.

87. Option (4) is correct.

The sentence "They have been neglecting maintenance of the archives for years" is in active voice, and to change to passive voice, the subject of active voice will change to the object in the passive. Similarly, the object of the active voice will become the subject in the passive voice. Thereby, the object "maintenance of the archives" will become the subject in passive voice. The structure of the present perfect continuous in passive voice is: has/have been being + past participle ("has been neglecting"). The phrase of time "for years" remains unchanged. All options, except (4), use the incorrect form of tense. The correct sentence is: Maintenance of the archives has been being neglected for years.

88. Option (2) is correct.

In the sentence, "The child began the introit at the priest's signal", the word "introit" refers to a hymn, psalm, or anthem that is sung as the ministers enter to begin the eucharist. All options, except (2), have the implication of a hymn sung at the beginning of a worship service.

89. Option (1) is correct.

The sentence "It was being suggested by multiple sources that the operation had been compromised internally" is in passive voice, and to change to active voice, the subject of passive voice will change to the object in active. Similarly, the object of passive voice will become the subject in active voice. Thereby, the object/agent "Multiple sources" will become the subject in active voice. The past perfect tense (had been compromised) in passive voice changes to simple past "was compromised" in active. The correct sentence is: Multiple sources suggested the operation was compromised internally.

90. Option (3) is correct.

As evident from the passage, education focuses on rote memorisation and standardised testing, while wisdom can be attained through trials, experiences and reflections.

91. Option (2) is correct.

The passage says that "wisdom transcends rigidity", and it entails the application to real-life events, which are enhanced by emotional intelligence and experience. Wisdom involves judgements that are influenced by real-life contexts and enables applying learning ethically and morally. Wisdom is associated with prudence and sagacity, which correlate to the development of moral awareness. This confirms that "wisdom enriches the soul" means that it fosters deeper moral insight.

92. Option (2) is correct.

The passage clearly states that "many wise individuals—farmers, artisans, elders—may not possess formal education, but their decisions exhibit prudence and sagacity cultivated through lived realities."

93. Option (4) is correct.

The passage is on the divergence between education and wisdom, where education centres around the

formal acquisition of knowledge based on theoretical frameworks; whereas, "wisdom transcends rigidity" and it entails the application to real-life events, which are enhanced by emotional intelligence and experience. On another level, education focuses on rote memorisation and standardised testing, while wisdom can be attained through trials, experiences and reflections. These two sets of pictures evince that the central contrast in the passage is between formal learning and applied wisdom.

94. Option (3) is correct.

It is explicitly stated in the passage that education equips the mind and wisdom enriches the soul, in an era dominated by information overload and algorithmic thinking, which has resulted in the widening of the schism. Thus, the reason behind the widening of the gap between education and wisdom.

95. Option (2) is correct.

The correct sentence is: She has the reputation of being a kind woman. The part "to be a kind woman" will be replaced by "of being a kind woman". "Reputation" is a noun, and we need a noun or gerund (a verb ending in "-ing"). Moreover, "to be" is an infinitive form of the verb and doesn't naturally follow "reputation."

96. Option (3) is correct.

The correct sentence is: The doctor advised him to avoid eating sweets and to exercise regularly. The original sentence lacks parallel structure and is inconsistent in structure. The verb "advised" is followed by the infinitive form "to avoid". Similarly to maintain parallelism, we must use the infinitive form "to exercise" for the second action. The verb "advised him" must be followed by "to", not the gerund form.

97. Option (1) is correct.

The sentence: He asked me, "Have you done your homework?" is in direct speech. To change the question into indirect speech, the reporting verb "asked" is used. Here, questions become statements, so we remove the question mark. In interrogative statements, we add "if" before removing the quotation marks. Other changes include in terms of pronoun and tense- "You" becomes "I" and present perfect ("have done") changes to past perfect ("had done") because we shift the tense back for indirect speech. The correct sentence then becomes "He asked me if I had done my homework."

98. Option (1) is correct.

The sentence "He said that he would join the meeting after lunch" is in indirect speech. To change into direct speech, the reporting clause ("He said that") must be removed and by eliminating "that". The words of the speaker will be put within quotation marks. Other changes include in terms of pronoun and tense- "He" becomes "I" and "would" changes to "will".

99. Option (1) is correct.

To form a logical and procedural flow of ideas:

I. - (3) User interactions were collected across platforms.

- Data collection comes first.

II. - (2) Demographic metrics were tracked from campaign dashboards.

- After gathering user interactions, measurable data (metrics) are analysed.

III. - (4) Analysts segmented users by age and behaviour.

- Once metrics are analysed, segmentation logically follows.

IV. - (1) A media strategy was framed based on outreach results.

- The strategy is the final outcome informed by the data analysis.

100. Option (1) is correct.

Let's analyse logically based on how a coherent description of research develops:

I. - (2) Research is a foundational pillar of academic and scientific progress.

- This introduces the topic — the importance and role of research.

II. - (1) It is a process that involves the systematic and objective investigation of a subject to discover new facts or to confirm existing ones.

- This defines what research is, following the introduction.

III. - (3) This can be either theoretical, aiming to expand knowledge, or applied, seeking to solve a practical problem.

- This elaborates on the types of research, adding detail after the definition.

IV. - (4) The findings of this investigation are then documented and peer-reviewed to ensure validity and credibility.

- This concludes logically with the outcome or final step of research.