

IBPS SO Prelims Memory-Based Paper (Aug 29, 2026) (Shift 1)

Section I: Reasoning Ability

Directions (1-5): Study the following information carefully and answer the questions given below.

Eight boxes P, Q, R, S, T, U, V, and W are kept one above the other in a single stack, but not necessarily in the same order. The bottom-most position is numbered 1 and the top-most position is numbered 8.

Box T is placed at an even-numbered position above position 4. Three boxes are placed between Box T and Box Q. Box W is placed immediately above Box Q. Two boxes are placed between Box W and Box R. Box S is placed immediately below Box R. Box P is placed above Box V and below Box U. Box P is not adjacent to Box R.

Q1. Which of the following boxes is placed at the top-most position?

- A. Box T
- B. Box U
- C. Box R
- D. Box P
- E. Box W

Q2. How many boxes are placed between Box W and Box V?

- A. One
- B. Two
- C. Three
- D. Four
- E. None

Q3. What is the position of Box P with respect to Box Q?

- A. Immediately above
- B. Two places above
- C. Three places above
- D. Immediately below
- E. Two places below

Q4. Which of the following statements is true regarding Box S?

- A. It is placed at the bottom-most position.
- B. It is placed immediately above Box W.
- C. Three boxes are placed below Box S.
- D. Box S is placed adjacent to Box T.
- E. Only one box is placed above Box S.

Q5. Four of the following five are alike in a certain way and hence form a group. Which of the following does not belong to that group?

- A. T
- B. P
- C. W
- D. V
- E. S

Directions (6-10): Study the following information carefully and answer the questions given below.

Seven persons A, B, C, D, E, F, and G are sitting in a linear row facing

North, but not necessarily in the same order.

D sits third to the left of G. G sits at one of the extreme ends of the row.

Only two persons sit between D and A. C sits to the immediate right of B. C does not sit at an extreme end. F sits to the right of E.

Q6. Who among the following sits at the extreme left end of the row?

- A. A
- B. B
- C. E
- D. D
- E. F

Q7. How many persons are sitting between B and F?

- A. None
- B. One
- C. Two
- D. Three
- E. More than three

Q8. What is the position of C with respect to E?

- A. Immediate left
- B. Second to the left
- C. Second to the right
- D. Third to the right
- E. Immediate right

Q9. Who among the following sits exactly in the middle of the row?

- A. C
- B. D
- C. E
- D. B

E. F

Q10. If A is related to C and D is related to F in a certain way, then to whom is E related following the same pattern?

- A. B
- B. D
- C. G
- D. A
- E. F

Directions (11-15): Study the following information carefully and answer the questions given below.

Eight persons K, L, M, N, O, P, Q, and R are sitting around a circular table facing the centre, but not necessarily in the same order.

K sits third to the right of R. Two persons sit between K and L. M sits second to the left of L. N sits to the immediate right of M. O sits second to the right of P. P is not an immediate neighbour of K.

Q11. Who among the following sits opposite to L?

- A. O
- B. R
- C. Q
- D. N
- E. P

Q12. What is the position of R with respect to N?

- A. Second to the right
- B. Third to the left
- C. Immediate left
- D. Fourth to the right
- E. Third to the right

Q13. How many persons sit between M and P when counted from the right of M?

- A. One
- B. Two
- C. Three
- D. Four
- E. None

Q14. Who among the following sits to the immediate right of Q?

- A. K
- B. R
- C. O
- D. P
- E. L

Q15. Which of the following statements is true regarding O?

- A. O sits immediate left of K.
- B. O faces M.
- C. Three persons sit between O and N.
- D. O sits second to the left of R.
- E. Both A and D are true.

Directions (16-17): Study the following alphanumeric series carefully and answer the questions given below.

M 4 \$ P 7 & A K 9 % # 3 E W @ 2 U 8 * V 5

Q16. How many such symbols are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a consonant?

- A. None
- B. One

- C. Two
- D. Three
- E. More than three

Q17. If all the numbers are dropped from the given series, which element will be 9th from the right end?

- A. %
- B. K
- C. #
- D. A
- E. E

Directions (18-20): In each of the questions below, some statements are given followed by two conclusions. You have to take the given statements to be true even if they seem to be at variance with commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements.

Q18. Statements:

Only a few Trees are Plants.

All Plants are Leaves.

No Leaf is a Root.

Conclusions:

I. Some Trees are definitely not Roots.

II. All Plants can be Trees.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either conclusion I or II follows
- D. Neither conclusion I nor II follows
- E. Both conclusion I and II follow

Q19. Statements:

Some laptops are desktops.

Only a few desktops are mobiles.

All mobiles are tablets.

Conclusions:

I. Some laptops being mobiles is a possibility.

II. All desktops can never be tablets.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either conclusion I or II follows
- D. Neither conclusion I nor II follows
- E. Both conclusion I and II follow

Q20. Statements:

No blue is red.

All red are yellow.

Some yellow are green.

Conclusions:

I. Some green are definitely not blue.

II. No red is green.

- A. Only conclusion I follows
- B. Only conclusion II follows
- C. Either conclusion I or II follows
- D. Neither conclusion I nor II follows
- E. Both conclusion I and II follow

Directions (21-22): Answer the questions based on the word given.

Q21. How many such pairs of letters are there in the word "WONDERFUL", each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?

- A. Two
- B. Three
- C. Four
- D. Five
- E. More than five

Q22. How many such pairs of letters are there in the word "CORPORATE", each of which has as many letters between them in the word (in both forward and backward directions) as they have between them in the English alphabetical series?

- A. None
- B. One
- C. Two
- D. Three
- E. Four

Directions (23-25): Study the following information carefully and answer the questions given below.

In a family of eight members, there are three generations and two married couples.

P is the father of Q. R is the daughter-in-law of S. T is the brother of Q. U is the daughter of T. V is the sister of U. W is the father of R. S is married to P. R is married to T. Q is a female member of the family.

Q23. How is Q related to V?

- A. Mother
- B. Sister
- C. Aunt
- D. Grandmother
- E. Cousin

Q24. How is W related to U?

- A. Father
- B. Grandfather
- C. Maternal Grandfather
- D. Paternal Grandfather
- E. Uncle

Q25. How is P related to R?

- A. Father
- B. Uncle
- C. Brother-in-law
- D. Father-in-law
- E. Grandfather

Section II: Quantitative Aptitude

Directions (26-30): What approximate value will come in place of the question mark (?) in the following questions? (You are not expected to calculate the exact value).

Q26. $(14.98 \times 11.02 - 39.99 = ?)$

- A. 125
- B. 135
- C. 145
- D. 115
- E. 155

Q27. $(\sqrt{399.9} \div 4.01 \times 12.11 = ?)$

- A. 45
- B. 50
- C. 55

D. 60

E. 75

Q28. $(34.95\% \text{ of } 599.88 + 19.99\% \text{ of } 449.9 = ?)$

A. 280

B. 300

C. 320

D. 340

E. 360

Q29. $(119.99 \div 4.98 + 4.99^2 = x \div 2)$

A. 88

B. 98

C. 108

D. 78

E. 118

Q30. $(43.98 \times 10.02 + 34.01 \times 3.99 = x^2)$

A. 18

B. 22

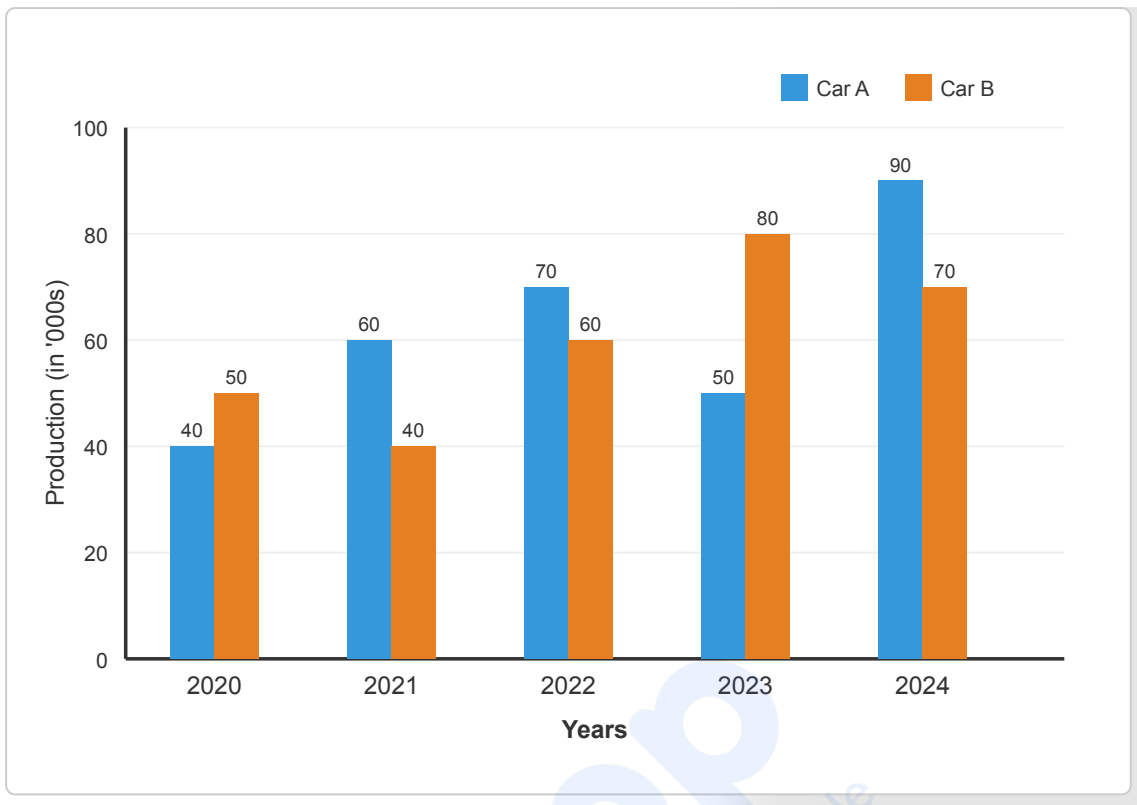
C. 24

D. 26

E. 28

Directions (31-35): Study the following bar graph carefully and answer the questions.

The bar graph shows the production of two types of cars A and B (in thousands) by a company over 5 consecutive years.



Q31. What is the ratio of the production of Car A in 2021 to the production of Car B in 2023?

- A. 3 : 5
- B. 4 : 5
- C. 3 : 4
- D. 5 : 6
- E. 2 : 3

Q32. What is the average production of Car A over all the given years (in thousands)?

- A. 58
- B. 62
- C. 64
- D. 60
- E. 66

Q33. The production of Car A in 2024 is approximately what percent more than the production of Car B in 2022?

- A. 40%
- B. 45%
- C. 50%
- D. 55%
- E. 60%

Q34. The total production of cars (A and B together) in 2022 is what percent of the total production of cars in 2024?

- A. 75.5%
- B. 81.25%
- C. 85%
- D. 78.75%
- E. 83.33%

Q35. What is the difference between the total production of Car A and total production of Car B over all the years (in thousands)?

- A. 10
- B. 15
- C. 20
- D. 5
- E. 25

Directions (36-40): In each of the following number series, a wrong number is given. Find out the wrong number.

Q36. 4, 6, 12, 30, 85, 315, 1260

- A. 12
- B. 30

- C. 85
- D. 315
- E. 1260

Q37. 15, 16, 20, 29, 44, 70, 106

- A. 16
- B. 20
- C. 29
- D. 44
- E. 70

Q38. 10, 12, 15, 21, 27, 38, 51

- A. 12
- B. 15
- C. 21
- D. 27
- E. 38

Q39. 5, 11, 23, 47, 95, 190, 383

- A. 11
- B. 23
- C. 47
- D. 95
- E. 190

Q40. 100, 95, 85, 70, 50, 25, -10

- A. 95
- B. 85
- C. 70
- D. 25

E. -10

Directions (41-43): Study the following caselet carefully and answer the questions given below.

There are three shops A, B, and C selling certain items. The total number of items available across all three shops is 900.

The total number of items in Shop A is 250, out of which 150 items were sold. The total number of items in Shop B is 350, out of which 100 items remained unsold. In Shop C, 40% of its total available items remained unsold.

Q41. What is the total number of sold items in Shop A and Shop C together?

- A. 310
- B. 330
- C. 350
- D. 320
- E. 340

Q42. The number of unsold items in Shop B is what percent of the sold items in Shop B?

- A. 30%
- B. 35%
- C. 40%
- D. 45%
- E. 50%

Q43. What is the ratio of the number of unsold items in Shop A to the number of unsold items in Shop C?

- A. 5 : 6
- B. 4 : 5
- C. 6 : 7

D. 3 : 4

E. 5 : 7

Directions (44-50): Answer the following arithmetic questions based on standard mathematical concepts.

Q44. A can complete a piece of work in 20 days and B can complete the same work in 30 days. They worked together for 6 days and then left.

What fraction of the work is left?

A. $\frac{1}{3}$

B. $\frac{1}{4}$

C. $\frac{1}{2}$

D. $\frac{2}{5}$

E. $\frac{3}{5}$

Q45. P and Q started a business investing Rs. 15,000 and Rs. 20,000 respectively. After 6 months, R joined them with an investment of Rs. 25,000. If the total profit at the end of the year was Rs. 38,000, what is Q's share in the profit?

A. Rs. 12,000

B. Rs. 15,000

C. Rs. 16,000

D. Rs. 18,000

E. Rs. 10,000

Q46. The speed of a boat in still water is 15 km/hr and the speed of the stream is 3 km/hr. How much total time will the boat take to travel 72 km downstream and 48 km upstream?

A. 6 hours

B. 7.5 hours

C. 8 hours

- D. 9 hours
- E. 10 hours

Q47. The simple interest accrued on a sum of money for 3 years at 10% per annum is Rs. 1,500. What will be the compound interest on the same sum for 2 years at the same rate of interest?

- A. Rs. 1,000
- B. Rs. 1,050
- C. Rs. 1,100
- D. Rs. 1,150
- E. Rs. 1,200

Q48. A shopkeeper marks up his goods by 40% above the cost price and allows a discount of 20% to the customer. If he earns a profit of Rs. 360, find the cost price of the article.

- A. Rs. 2,500
- B. Rs. 2,800
- C. Rs. 3,000
- D. Rs. 3,200
- E. Rs. 3,500

Q49. A 60-liter mixture contains milk and water in the ratio 7 : 3. How much water must be added to the mixture so that the ratio of milk and water becomes 1 : 1?

- A. 18 liters
- B. 20 liters
- C. 24 liters
- D. 28 liters
- E. 30 liters

Q50. The circumference of a circle is equal to the perimeter of a square. If the radius of the circle is 14 cm, what is the area of the square?

- A. 400 sq. cm
- B. 441 sq. cm
- C. 484 sq. cm
- D. 529 sq. cm
- E. 576 sq. cm

Section III: English Language

Directions (51-58): Read the following passage carefully and answer the questions given below it. Certain words are given in bold to help you locate them while answering some of the questions.

Climate change is increasingly acting as a disruptor of global agricultural supply chains, shifting from a distant environmental concern to an immediate economic threat. The increased frequency of extreme weather events, such as prolonged droughts and intense flooding, directly impacts crop yields and degrades soil health. Consequently, these unpredictable weather patterns severely hinder the ability of farmers to maintain consistent production levels.

Furthermore, the logistical backbone of these supply chains is highly **vulnerable** to climate anomalies. Ports, railways, and highways frequently suffer damages during severe storms, leading to bottlenecks that delay the transportation of essential food commodities. This not only results in significant post-harvest losses due to spoilage but also creates a supply-demand imbalance, inevitably driving up food prices for the end consumer.

To **mitigate** these profound impacts, it is imperative for the global community to invest heavily in climate-resilient agricultural practices and infrastructure. Developing drought-resistant crop varieties, enhancing predictive weather modeling, and building robust transportation networks are crucial steps. Adapting to these new climate realities requires

unprecedented global cooperation and sustained financial investment, moving beyond short-term fixes to secure the future of global food security.

Q51. What is the central theme of the passage?

- A. The technological advancements in predictive weather modeling.
- B. The necessity of subsidizing the transportation sector.
- C. The impact of climate disruptions on agricultural supply chains.
- D. The economic benefits of global food trade.
- E. A detailed analysis of soil health degradation.

Q52. According to the passage, what is a direct consequence of extreme weather events on agriculture?

- A. Reduction in transportation costs.
- B. Improvement in post-harvest storage.
- C. Direct impact on crop yields and soil health.
- D. Decrease in global food prices.
- E. Immediate shift to urban farming.

Q53. Choose the word which is most similar in meaning to the word 'mitigate' as used in the passage.

- A. Aggravate
- B. Alleviate
- C. Complicate
- D. Intensify
- E. Provoke

Q54. Choose the word which is most opposite in meaning to the word 'vulnerable' as used in the passage.

- A. Susceptible
- B. Exposed
- C. Resilient

D. Defenseless

E. Sensitive

Q55. Which of the following is NOT mentioned in the passage as a step to combat the impacts of climate change on supply chains?

A. Investing in climate-resilient infrastructure.

B. Developing drought-resistant crop varieties.

C. Enhancing predictive weather modeling.

D. Building robust transportation networks.

E. Providing heavy subsidies for fossil fuels.

Q56. How do damages to the logistical backbone affect the consumer, according to the passage?

A. By providing them with fresher produce.

B. By increasing the nutritional value of food.

C. By creating a supply-demand imbalance driving up prices.

D. By reducing the dependency on international imports.

E. By shifting dietary habits toward plant-based foods.

Q57. What can be inferred about the required approach to secure global food security?

A. It can be easily achieved through localized, short-term fixes.

B. It demands significant global cooperation and sustained financial investment.

C. It relies primarily on the reduction of population growth.

D. It is an issue that only developing nations need to address.

E. It requires abandoning traditional agriculture completely.

Q58. Which of the following statements is TRUE in the context of the passage?

A. Climate change is still merely a distant environmental concern.

- B. Transportation delays lead to significant post-harvest losses.
- C. Climate anomalies have no effect on railways and highways.
- D. Farmers are easily able to maintain consistent production despite extreme weather.
- E. Food prices drop when supply chains are bottlenecked.

Direction (59): Select the most appropriate connector from the options given to join the two sentences into a single, coherent sentence without changing their original meaning.

Q59.

I. The company faced severe financial losses during the quarter.

II. It decided to aggressively expand its operations globally.

- A. Consequently
- B. Moreover
- C. Although
- D. In addition to
- E. Therefore

Directions (60-63): In the following questions, a phrase/part of the sentence is highlighted. Below are given alternatives to the highlighted part which may improve the sentence. Choose the correct alternative. In case no improvement is needed, choose 'No improvement required'.

Q60. The manager decided to call out the meeting until tomorrow due to the sudden strike by the staff.

- A. call off
- B. put off
- C. bring up
- D. take out
- E. No improvement required

Q61. She is too smarter than her younger brother when it comes to solving complex puzzles.

- A. much smarter than
- B. more smarter than
- C. very smarter then
- D. so smarter as
- E. No improvement required

Q62. Scarcely had I reached the railway station then the train left the platform.

- A. than the train left
- B. when the train left
- C. since the train left
- D. while the train left
- E. No improvement required

Q63. They have been living in this metropolitan city since five years.

- A. for five years
- B. from five years
- C. about five years
- D. by five years
- E. No improvement required

Directions (64-67): In each of the following sentences, four words are highlighted in bold. One of these words may be wrongly spelt or inappropriate in the context of the sentence. Find out the incorrectly spelt or inappropriate word. If all words are correct, mark 'All correct' as your answer.

Q64. The committee (A) has given its recomendation (B) for the immediate (C) implementation (D) of the new environmental policy.

- A. committee
- B. recommendation
- C. immediate
- D. implementation
- E. All correct

Q65. The sudden fluctuation (A) in the stock market (B) caused a lot of panic (C) among the retail investors (D).

- A. fluctuation
- B. market
- C. panic
- D. investors
- E. All correct

Q66. It is mandatory (A) for all employees to maintain the confidentiality (B) of the client's (C) financial records (D).

- A. mandatory
- B. confidentiality
- C. client's
- D. records
- E. All correct

Q67. The CEO's visionary (A) leadership (B) helped the startup achieve unprecedented (C) growth (D) in just one year.

- A. visionary
- B. leadership
- C. unprecedented
- D. growth
- E. All correct

Directions (68-71): Rearrange the following sentences (A), (B), (C), and (D) in the proper sequence to form a meaningful paragraph, then answer the questions given below them.

(A) However, this transition to newer technologies requires massive initial investments.

(B) Solar energy is becoming increasingly popular across the globe.

(C) It provides a clean and sustainable alternative to traditional fossil fuels.

(D) Governments must therefore subsidize green energy initiatives to ease this burden.

Q68. Which of the following should be the FIRST sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. None of the above

Q69. Which of the following should be the SECOND sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. None of the above

Q70. Which of the following should be the THIRD sentence after rearrangement?

- A. A
- B. B
- C. C

- D. D
- E. None of the above

Q71. Which of the following should be the FOURTH (LAST) sentence after rearrangement?

- A. A
- B. B
- C. C
- D. D
- E. None of the above

Directions (72-75): Read each sentence to find out whether there is any grammatical error in it. The error, if any, will be in one part of the sentence. The letter of that part is the answer. If there is no error, the answer is (E).

Q72. One of the student (A) / in the class (B) / has scored (C) / the highest marks in the exam. (D) / No Error (E)

- A. A
- B. B
- C. C
- D. D
- E. E

Q73. Neither the manager (A) / nor the employees (B) / was aware (C) / of the newly implemented HR policy. (D) / No Error (E)

- A. A
- B. B
- C. C
- D. D
- E. E

Q74. The newly installed software (A) / is more superior (B) / to the older version (C) / in terms of processing speed. (D) / No Error (E)

- A. A
- B. B
- C. C
- D. D
- E. E

Q75. Unless you do not work (A) / hard consistently, you (B) / will not pass (C) / the upcoming competitive examination. (D) / No Error (E)

- A. A
- B. B
- C. C
- D. D
- E. E

Section IV: Professional Knowledge (IT Officer)

Q76. What is the standard port number assigned by default to the Domain Name System (DNS) protocol?

- A. Port 21
- B. Port 25
- C. Port 53
- D. Port 80
- E. Port 110

Q77. Consider the following page reference string: 1, 2, 3, 4, 1, 2, 5, 1, 2, 3, 4, 5.

Assuming a memory capacity of 3 frames that are initially empty, how

many page faults will occur using the First-In-First-Out (FIFO) page replacement algorithm?

- A. 7
- B. 8
- C. 9
- D. 10
- E. 11

Q78. Which of the following statements is theoretically TRUE regarding the Least Recently Used (LRU) page replacement algorithm?

- A. It frequently suffers from Belady's Anomaly.
- B. It replaces the page that was brought into memory most recently.
- C. It does not suffer from Belady's Anomaly because it is a stack algorithm.
- D. It is easier and cheaper to implement in hardware than FIFO.
- E. It always results in more page faults than the FIFO algorithm.

Q79. In cryptography, if the identical key is utilized for both the encryption of plaintext and the decryption of ciphertext, what type of encryption technique is this?

- A. Asymmetric Key Encryption
- B. Public Key Infrastructure
- C. Symmetric Key Encryption
- D. Hash Functioning
- E. Quantum Cryptography

Q80. Given a network with the IP address 192.168.1.0 and a subnet mask of /26 (255.255.255.192), how many usable host IP addresses are available per subnet?

- A. 30
- B. 32

- C. 62
- D. 64
- E. 126

Q81. In Quantum Computing, what is the fundamental unit of quantum information that can exist in a superposition of states?

- A. Bit
- B. Byte
- C. Qubit
- D. Q-gate
- E. Photon

Q82. In relational databases (SQL), the UNION operator is used to combine the result sets of two or more SELECT statements. Which of the following is a strict requirement for using the UNION operator?

- A. The tables must have a foreign key relationship.
- B. The SELECT statements must have the same number of columns with similar data types.
- C. The SELECT statements must be ordered by the primary key.
- D. The data in both tables must be exactly identical.
- E. The tables must belong to the same database schema only.

Q83. When traversing a standard Binary Search Tree (BST), which traversal method will always visit the nodes in ascending sorted order?

- A. Pre-order Traversal
- B. Post-order Traversal
- C. In-order Traversal
- D. Level-order Traversal
- E. Depth-First Search

Q84. In Object-Oriented Programming (OOP), the ability of different objects to respond in their own specific way to the same method call or message is known as:

- A. Encapsulation
- B. Inheritance
- C. Abstraction
- D. Polymorphism
- E. Instantiation

Q85. In a standard Linux file system hierarchy, what is the primary purpose of the /etc directory?

- A. To store temporary user files.
- B. To store executable binary files for standard users.
- C. To store system-wide configuration files and scripts.
- D. To act as the home directory for the root user.
- E. To mount removable media devices.

Q86. Cloud services like Google Workspace, Salesforce, and Microsoft 365, which provide fully functional applications over the internet to end-users, fall under which cloud computing model?

- A. Infrastructure as a Service (IaaS)
- B. Platform as a Service (PaaS)
- C. Software as a Service (SaaS)
- D. Function as a Service (FaaS)
- E. Network as a Service (NaaS)

Q87. Consider the following statements regarding Artificial Intelligence (AI):

- I. Machine Learning is considered a subset of Artificial Intelligence.
- II. Strong AI (Artificial General Intelligence) currently exists and perfectly replicates human cognitive abilities in everyday applications.
- III. Deep Learning models are built using artificial neural networks with

multiple layers.

Which of the statements given above is/are correct?

- A. Only I
- B. Only II and III
- C. Only I and III
- D. All I, II, and III
- E. Only III

Q88. In digital banking technology, the e-KYC (Electronic Know Your Customer) process in India heavily relies on which of the following for instant customer authentication?

- A. PAN Card physical verification
- B. Aadhaar-based biometric or OTP authentication
- C. Voter ID manual scanning
- D. Physical signature matching
- E. Utility bill background checks

Q89. Which RAID (Redundant Array of Independent Disks) level utilizes block-level striping combined with distributed parity, requiring a minimum of three disk drives?

- A. RAID 0
- B. RAID 1
- C. RAID 5
- D. RAID 6
- E. RAID 10

Q90. In the training phase of an Artificial Neural Network, what is the name of the algorithm used to calculate the gradient of the loss function by working backwards from the output layer to update the weights?

- A. Feedforwarding
- B. Backpropagation

- C. Activation Scaling
- D. Linear Regression
- E. Cluster Analysis

Q91. What is the primary function of the Address Resolution Protocol (ARP) in a computer network?

- A. To map a domain name to an IP address.
- B. To map a MAC address to an IP address.
- C. To map an IP address to a physical MAC address.
- D. To assign dynamic IP addresses to network devices.
- E. To route packets between different subnets.

Q92. In Python programming, which keyword is utilized inside a function to pause its execution and return a generator object, allowing it to produce a sequence of values over time?

- A. return
- B. generate
- C. yield
- D. lambda
- E. iter

Q93. In the Agile software development framework, what term is used to describe a short, time-boxed period (usually 1-4 weeks) during which a Scrum team works to complete a defined set of tasks?

- A. Epic
- B. Sprint
- C. Backlog
- D. Stand-up
- E. Milestone

Q94. In Java, if a variable is declared using the `final` keyword, which of the following is true?

- A. It becomes a global variable accessible by all classes.
- B. Its value cannot be modified once it has been initialized.
- C. It automatically becomes a static variable.
- D. It must be initialized at runtime by the user.
- E. It can only hold integer values.

Q95. Under the Information Technology Act, 2000 of India, which section deals with the punishment for identity theft (fraudulently or dishonestly making use of the electronic signature, password, or any other unique identification feature of any other person)?

- A. Section 43A
- B. Section 66B
- C. Section 66C
- D. Section 67
- E. Section 70

Q96. In Java, if no access specifier (modifier) is explicitly provided for a class member, what is its default visibility scope?

- A. Visible to all classes everywhere (Public)
- B. Visible only within the same class (Private)
- C. Visible to classes within the same package only (Package-private)
- D. Visible to subclasses regardless of the package (Protected)
- E. Visible only to native methods

Q97. In C++ programming, what is the default access modifier for members (variables and functions) inside a class if none is explicitly declared?

- A. public
- B. protected

- C. private
- D. default
- E. internal

Q98. In a B+ tree, which is commonly used in database indexing, where are all the actual data records (or pointers to the actual data rows) strictly stored?

- A. In the root node only.
- B. In the internal (non-leaf) nodes only.
- C. Only in the leaf nodes.
- D. Distributed evenly across all nodes.
- E. In a separate hash table linked to the root.

Q99. Which CPU scheduling algorithm allocates the processor to the process that requests it first, leading to a potential "convoy effect"?

- A. Shortest Job First (SJF)
- B. Round Robin (RR)
- C. First-Come, First-Served (FCFS)
- D. Priority Scheduling
- E. Multilevel Queue Scheduling

Q100. In database normalization, which normal form explicitly ensures that there are no transitive dependencies of non-prime attributes on the primary key?

- A. First Normal Form (1NF)
- B. Second Normal Form (2NF)
- C. Third Normal Form (3NF)
- D. Boyce-Codd Normal Form (BCNF)
- E. Fourth Normal Form (4NF)