

(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU
ARE ASKED TO DO SO)

A

PG-EE-July, 2025

SET-Y

SUBJECT : MCA/Computer Science

Sr. No. 10569

Time : 1½ Hours

Max. Marks : 100

Total Questions : 100

Roll No. (in figures) (in words)

Name Date of Birth

Father's Name Mother's Name

Date of Examination

(Signature of the Candidate)

(Signature of the Invigilator)

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PG-EE-July, 2025/(MCA/Computer Science)(SET-Y)/(A)

SEAL

1. The sum of first 5 terms of an A. P. with first term 2 and common difference 3 is :
(1) 30 (2) 35
(3) 40 (4) 45
2. Give the another representation of the following set : $\{x \in N \mid x \leq 36 \text{ and } x \text{ divides } 36\}$
(1) $\{1, 2, 3, 4, 6, 8, 12, 18, 36\}$
(2) $\{1, 2, 3, 4, 8, 12, 18, 36\}$
(3) $\{1, 2, 3, 4, 6, 9, 12, 18, 36\}$
(4) $\{1, 2, 4, 6, 8, 9, 12, 18, 36\}$
3. Number of permutations of the word "LEVEL" is :
(1) 120 (2) 60
(3) 30 (4) 20
4. If events A and B are such that $P(A) = 0.6$, $P(B) = 0.5$, and $P(A \cup B) = 0.9$, what is $P(A \cap B)$?
(1) 0.1 (2) 0.2
(3) 0.3 (4) 0.4
5. Which of the following is **not** true about the correlation coefficient r ?
(1) $r \in [-1, 1]$
(2) $r = 0$ means no linear relationship
(3) $r = 1$ implies perfect positive relation
(4) $r = 1$ implies causation

6. The kurtosis of a normal distribution is :
- (1) 0 (2) 1
(3) 3 (4) -1
7. In triangle ABC, if $a^2 = b^2 + c^2 - 2bc \cos A$, it is known as :
- (1) Pythagoras theorem (2) Law of sines
(3) Cosine rule (4) Sine rule
8. The solution of the equation $\cos(2x) = 1$ in $[0, 2\pi]$ is :
- (1) $x = 0$ only (2) $x = 0, \pi$
(3) $x = \pi$ only (4) $x = 0, \pi, 2\pi$
9. The scalar (dot) product of two perpendicular vectors is :
- (1) 1 (2) 0
(3) -1 (4) Can't be determined
10. The roots of the quadratic equation $x^2 - 5x + 6 = 0$ are :
- (1) 2, 3 (2) -2, -3
(3) -1, -6 (4) 1, 6
11. Choose the **correct** alternative that will continue the same pattern and replace the question mark in the given series : 1, 3, 4, 8, 15, 27, ?
- (1) 37 (2) 44
(3) 50 (4) 55

12. In this question, one term in the number series is wrong. Find out the wrong term.
89, 78, 86, 80, 85, 82, 83
- (1) 83 (2) 82
(3) 86 (4) 78
13. BCB DED FGF HHH What pattern should fill the blank ?
- (1) JKJ (2) HJH
(3) IJI (4) JHJ
14. How many such letter-pairs are there in the word SMUGGLER having same no. of letters left between them as they have in the series ?
- (1) 2 (2) 3 (3) 4 (4) 1
15. If RAVE is coded as SXWB then how will SCAW be coded ?
- (1) TDBO (2) TZBK
(3) PZXX (4) TVXK
16. If $A + B$ means A is the brother of B; $A - B$ means A is the sister of B and $A \times B$ means A is the father of B. Which of the following means that C is the son of M ?
- (1) $M - N \times C + F$ (2) $F - C + N \times M$
(3) $N + M - F \times C$ (4) $M \times N - C + F$
17. Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P ?
- (1) North (2) South
(3) South-East (4) None of these

18. Statements :

Some dogs are cats.

All cats are animals.

Conclusions :

I. Some dogs are animals.

II. All dogs are animals.

(1) Only I follows

(2) Only II follows

(3) Both follow

(4) None follow

19. Sentence : "Before you judge someone, walk a mile in their shoes"

What is the punch line ?

(1) You'll understand their journey.

(2) You'll feel pity for them.

(3) Then you'll be a mile away - and have their shoes!

(4) You'll start respecting yourself.

20. Statement : Should social media be banned during elections ?

Argument I : Yes, it can spread misinformation.

Argument II : No, it is a medium for free speech.

(1) Only I is strong

(2) Only II is strong

(3) Both are strong

(4) Neither is strong

21. Best summary for the paragraph :

"Libraries are no longer just about books. They offer digital resources, workshops, and community spaces. Their role in society has evolved."

- (1) Libraries are losing popularity.
- (2) Libraries are traditional institutions.
- (3) Libraries have shut down physical spaces.
- (4) Libraries have evolved to include digital functions.

22. A clock shows 4:20. What is the angle between the hour and minute hands ?

- (1) 0°
- (2) 10°
- (3) 20°
- (4) 30°

23. Statements : In a one day cricket match, the total runs made by a team were 200. Out of these 160 runs were made by spinners.

Conclusions :

I. 80% of the team consists of spinners.

II. The opening batsmen were spinners.

- (1) Only conclusion I follows
- (2) Only conclusion II follows
- (3) Both I and II follow
- (4) Neither I nor II follows

24. A number of friends decided to go on a picnic and planned to spend Rs. 96 on eatables. Four of them, however, did not turn up. As a consequence, the remaining ones had to contribute Rs. 4 each extra. The number of those who attended the picnic was :
- (1) 8 (2) 12
(3) 16 (4) 24
25. A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on these fruits. The number of pineapples purchased is :
- (1) 2 (2) 3
(3) 4 (4) Data inadequate
26. ELFA, GLHA, ILJA,, MLNA
- (1) OLPA (2) KLMA
(3) LLMA (4) KILLA
27. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C ?
- (1) Rs. 375 (2) Rs. 400
(3) Rs. 600 (4) Rs. 800
28. An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is :
- (1) 2% (2) 2.02 %
(3) 4% (4) 4.04 %

29. Statements : Some actors are singers. All the singers are dancers.

Conclusions :

I. Some actors are dancers.

II. No singer is actor.

(1) Only (I) conclusion follows

(2) Only (II) conclusion follows

(3) Either (I) or (II) follows

(4) Neither (I) nor (II) follows

30. 120, 99, 80, 63, 48, ?

(1) 35

(2) 38

(3) 39

(4) 40

31. Marathon is to race as hibernation is to :

(1) winter

(2) bear

(3) dream

(4) sleep

32. Arrange the words given below in a meaningful sequence.

I. Word II. Paragraph III. Sentence IV. Letters V. Phrase

(1) IV, I, V, II, III

(2) IV, I, III, V, II

(3) IV, II, V, I, III

(4) IV, I, V, III, II

33. Rearrange P, Q, R and S to produce the *correct* sentence :

When he

P : did not know

Q : he was nervous and

R : heard the hue and cry at midnight

S : what to do

The Proper sequence should be :

(1) RQPS

(2) QSPR

(3) SQPR

(4) PQRS

34. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15% ?

(1) Rs. 21,000

(2) Rs. 22,500

(3) Rs. 25,300

(4) Rs. 25,200

35. A, B, C, D, and E are sitting in a row. B is to the right of A but to the left of C, D is to the right of C. Who is sitting at the extreme right ?

(1) B

(2) D

(3) E

(4) A

36. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is :

(1) 1 : 3

(2) 3 : 2

(3) 3 : 4

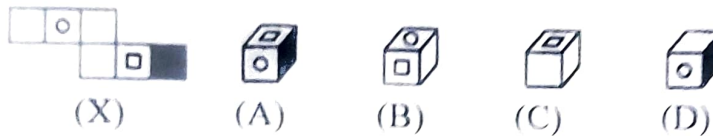
(4) None of these

37. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs ?
- (1) 6.25 (2) 6.5
(3) 6.75 (4) 7
38. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero ?
- (1) 0 (2) 1
(3) 10 (4) 19
39. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is :
- (1) 9000 (2) 9400
(3) 9600 (4) 9800
40. Choose the **correct** alternative that will continue the same pattern and replace the question mark in the given series : 1, 1, 4, 8, 9, 27, 16, ?
- (1) 32 (2) 64
(3) 81 (4) 256
41. Which term of the series 5, 10, 20, 40, is 1280 ?
- (1) 10th (2) 9th
(3) 8th (4) None of these
42. Which of the following will not be a number of the series 1, 8, 27, 64, 125, ?
- (1) 256 (2) 512
(3) 729 (4) 1000

43. In this type of questions, one term in the number series is wrong. Find out the wrong term. 46080, 3840, 384, 48, 24, 2, 1.

(1) 384 (2) 48
(3) 24 (4) 2

44. Choose the box that is similar to the box formed from folding the given sheet of paper (X).



(1) (A) and (B) only
(2) (B), (C) and (D) only
(3) (D) only
(4) (C) and (D) only

45. Sachin walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position ?

(1) 20 km. (2) 30 km.
(3) 50 km. (4) 60 km.

46. In a certain code language '765' means—'Man Illness Hard-working', '478' means—'Illness Hard Blood-Pressure', '826' means—'Blood-Pressure Lazy Hard-working', then which code has been used for 'Lazy' ?

(1) 2 (2) 6 or 2
(3) 6 (4) 8

47. If BURNER is coded as CASOIS then how will ALIMENT be coded ?
- (1) BKJLFMU (2) EKOLIMS
(3) EMONIOU (4) BRJSFTU
48. Choose the missing terms out of the given alternatives :
CMM, EOO, GQQ,, KUU
- (1) GRR (2) GSS
(3) ISS (4) ITT
49. Look at this series : J14, L16,, P20, R22, What number should fill the blank ?
- (1) S24 (2) N18
(3) M18 (4) T24
50. Choose the *correct* alternative that will continue the same pattern and replace the question mark in the given series : 20, 20, 19, 16, 17, 13, 14, 11, ?, ?
- (1) 10, 10 (2) 10, 11
(3) 13, 14 (4) 13, 16
51. Hexadecimal equivalent of binary 11011011 is :
- (1) DB (2) D3
(3) CD (4) BC
52. Which of the following tag is used to make the underlined text in HTML ?
- (1) <i> (2)
(3) <u> (4) <pre>

53. Which of following is *not* an attribute of <form> tag in HTML ?

- (1) Action
- (2) Method
- (3) name
- (4) url

54. BIOS stands for :

- (1) Business input output system
- (2) Basic input output system
- (3) Business input open system
- (4) Business input office system

55. Which law is represented by $A + AB = A$?

- (1) Distributive Law
- (2) Absorption Law
- (3) Idempotent Law
- (4) Associative Law

56. DeMorgan's law states :

- (1) $(A \cdot B)' = A' \cdot B'$
- (2) $(A + B)' = A' + B'$
- (3) $(A + B)' = A' \cdot B'$
- (4) $(A \cdot B)' = A' \cdot B'$

57. What is the *correct* HTML tag to create a hyperlink ?

- (1) <link>
- (2) <href>
- (3) <a>
- (4) <url>

58. Which protocol is used for sending emails ?
- (1) FTP (2) POP
(3) SMTP (4) HTTP
59. Which of the following protocols is used to retrieve emails from a server ?
- (1) SMTP (2) HTTP
(3) POP3 (4) FTP
60. The main advantage of high-level languages over assembly languages is :
- (1) Faster execution
(2) Less memory usage
(3) Platform dependency
(4) Easier to write and maintain
61. The start and end points in a flowchart are represented by :
- (1) Circle (2) Rectangle
(3) Oval (4) Triangle
62. A process in an OS is:
- (1) A passive program
(2) A binary file
(3) An active program in execution
(4) Part of compiler

63. Which of the following is a sequential access storage device ?

- | | |
|-----------------|-------------------|
| (1) CD ROM | (2) Magnetic Tape |
| (3) Flash Drive | (4) Hard Disk |

64. A DVD is an example of which kind of storage ?

- | | |
|-------------------|--------------|
| (1) Optical | (2) Magnetic |
| (3) Semiconductor | (4) Cloud |

65. The smallest unit of memory used to store a single character is :

- | | |
|----------|------------|
| (1) Bit | (2) Byte |
| (3) Word | (4) Nibble |

66. In memory hierarchy, which memory is closest to the CPU ?

- | | |
|---------------|-----------|
| (1) Hard Disk | (2) Cache |
| (3) RAM | (4) SSD |

67. What is the dual of the Boolean expression $A + 0 = A$?

- | | |
|---------------------|-----------------|
| (1) $A \cdot 1 = A$ | (2) $A + 1 = 0$ |
| (3) $A \cdot 0 = A$ | (4) $A + 0 = 1$ |

68. Which logic gate gives output 1 when both inputs are different ?

- | | |
|---------|---------|
| (1) AND | (2) OR |
| (3) XOR | (4) NOR |

69. Which Boolean law is used in this equation ?

$$A + A = A ?$$

- | | |
|--------------------|----------------------|
| (1) Idempotent Law | (2) Absorption Law |
| (3) Domination Law | (4) Distributive Law |

70. 2's complement of 0001 is :

- | | |
|----------|----------|
| (1) 1001 | (2) 1110 |
| (3) 1111 | (4) 0110 |

71. What is 2's complement of 0 ?

- | | |
|--------|---------------|
| (1) 0 | (2) 1 |
| (3) -1 | (4) Undefined |

72. Which of the following binary operations is equivalent to decimal subtraction ?

- (1) 2's complement addition
- (2) Logical AND
- (3) Logical OR
- (4) XOR

73. The ASCII value of capital letter 'A' is :

- | | | | |
|--------|--------|--------|--------|
| (1) 65 | (2) 97 | (3) 66 | (4) 64 |
|--------|--------|--------|--------|

74. What is the value of hexadecimal number 1A in decimal ?

- | | |
|--------|--------|
| (1) 26 | (2) 21 |
| (3) 17 | (4) 31 |

75. What is the binary representation of the decimal fraction 0.125 ?

- | | |
|-----------|--------------|
| (1) 0.1 | (2) 0.01 |
| (3) 0.001 | (4) 0.110101 |

76. The program counter (PC) holds :

- (1) Address of current instruction
- (2) Opcode
- (3) Address of next instruction
- (4) Value of accumulator

77. The resolution of a monitor is measured in :

- | | |
|-----------|------------|
| (1) Hertz | (2) Pixels |
| (3) Bits | (4) Inches |

78. Which of the following is an impact printer?

- | | |
|------------------------|---------------------|
| (1) Inkjet printer | (2) Laser printer |
| (3) Dot matrix printer | (4) Thermal printer |

79. Thermal printers are commonly used in:

- | | |
|---------------------|----------------------------|
| (1) Banking | (2) Retail receipt systems |
| (3) Book publishing | (4) Plotting graphics |

80. What is the base of octal number system ?

- | | |
|-------|--------|
| (1) 4 | (2) 8 |
| (3) 7 | (4) 16 |

81. A nibble is :

- | | |
|------------|-------------|
| (1) 2 bits | (2) 4 bits |
| (3) 8 bits | (4) 16 bits |

82. 1 Terabyte (TB) = ?

- | | |
|-------------|-------------|
| (1) 1000 GB | (2) 1024 GB |
| (3) 1024 MB | (4) 2048 GB |

83. What does CC in an email stand for ?

- | | |
|------------------|------------------|
| (1) Content Copy | (2) Central Code |
| (3) Carbon Copy | (4) Country Code |

84. What is the **correct** tag for inserting an image in HTML?

- | | |
|-------------|-----------|
| (1) <image> | (2) |
| (3) <src> | (4) <pic> |

85. What does "URL" stand for ?

- (1) Uniform Resolution Locator
- (2) Uniform Resource Locator
- (3) Unified Resource Link
- (4) Universal Register Locator

86. Which of the following is **not** an operating system ?

- | | |
|-----------|-------------|
| (1) Linux | (2) Windows |
| (3) Unix | (4) Oracle |

87. Which of the following is used to translate domain names to IP addresses ?
- (1) DHCP (2) FTP
(3) DNS (4) IPX
88. Which internet service allows you to access remote computers ?
- (1) FTP (2) Telnet
(3) HTTP (4) DNS
89. Which of the following is *not* a search engine ?
- (1) Bing (2) Google
(3) Mozilla Firefox (4) DuckDuckGo
90. The most commonly used Internet application for downloading/uploading files is:
- (1) Telnet (2) FTP
(3) SMTP (4) POP
91. Fervid is most similar to :
- (1) delightful (2) difficult
(3) obstinate (4) ardent
92. Choose the most appropriate substitute for the description: A person interested in collecting, studying and selling of old things :
- (1) Antiquarian (2) Junk-dealer
(3) Crank (4) Archealogist

93. What is the tense of following sentence : It had rained heavily in the night.
- (1) simple past tense
 - (2) past perfect tense
 - (3) past continuous tense
 - (4) none of these
94. My mother is abroad so my dad is taking care us the moment.
- (1) of, at
 - (2) of, in
 - (3) at, for
 - (4) of, of
95. Choose the alternative which best expresses the meaning of following idiom/phrase.
- To cry wolf
- (1) To listen eagerly
 - (2) To give false alarm
 - (3) To turn pale
 - (4) To keep off starvation
96. Choose the correct alternative to improve the underline part of the sentence :
- He could not look anything in the dark room.
- (1) look at
 - (2) see
 - (3) see through
 - (4) No improvement
97. Find the correctly spelt words.
- (1) Efficient
 - (2) Treatmeant
 - (3) Beterment
 - (4) Employd

P. T. O.

98. From the given alternatives, choose the one which best expresses the given sentence in Indirect/Direct speech.

I told him that he was not working hard.

- (1) I said to him, "You are not working hard."
- (2) I told to him, "You are not working hard."
- (3) I said, "You are not working hard."
- (4) I said to him, "He is not working hard."

99. Reading fiction enhances empathy by allowing readers to experience the world through another's perspective. Unlike informational texts, stories build emotional connections and improve understanding of human behavior.

Which of the following is **not** stated in the passage ?

- (1) Fiction helps understand emotions
- (2) Stories are emotionally engaging
- (3) Informational texts are better for empathy
- (4) Reading fiction can be beneficial

100. Which of the following best illustrates the idea:

"Don't judge a book by its cover" ?

- (1) Fancy packaging ensures quality
- (2) First impressions always count
- (3) True value lies beneath appearance
- (4) Always choose expensive products

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- (3) obstinate
- (4) ardent

12. Choose the most appropriate substitute for the description: A person interested in collecting, studying and selling of old things :

- (1) Antiquarian
- (2) Junk-dealer
- (3) Crank
- (4) Archeologist

13. What is the tense of following sentence : It had rained heavily in the night.

- (1) simple past tense
- (2) past perfect tense
- (3) past continuous tense
- (4) none of these

14. My mother is abroad so my dad is taking care us the moment.

- (1) of, at
- (2) of, in
- (3) at, for
- (4) of, of

15. Choose the alternative which best expresses the meaning of following idiom/phrase.

To cry wolf

- (1) To listen eagerly
- (2) To give false alarm
- (3) To turn pale
- (4) To keep off starvation

16. Choose the correct alternative to improve the underline part of the sentence :

He could not look anything in the dark room.

- | | |
|-----------------|--------------------|
| (1) look at | (2) see |
| (3) see through | (4) No improvement |

17. Find the correctly spelt words.

- | | |
|---------------|----------------|
| (1) Efficient | (2) Treatmeant |
| (3) Beterment | (4) Employd |

18. From the given alternatives, choose the one which best expresses the given sentence in Indirect/Direct speech.

I told him that he was not working hard.

- (1) I said to him, "You are not working hard."
- (2) I told to him, "You are not working hard."
- (3) I said, "You are not working hard."
- (4) I said to him, "He is not working hard."

19. Reading fiction enhances empathy by allowing readers to experience the world through another's perspective. Unlike informational texts, stories build emotional connections and improve understanding of human behavior.

Which of the following is **not** stated in the passage ?

- (1) Fiction helps understand emotions
- (2) Stories are emotionally engaging
- (3) Informational texts are better for empathy
- (4) Reading fiction can be beneficial

20. Which of the following best illustrates the idea:

"Don't judge a book by its cover" ?

- (1) Fancy packaging ensures quality
- (2) First impressions always count
- (3) True value lies beneath appearance
- (4) Always choose expensive products

21. What is 2's complement of 0 ?

- (1) 0
- (2) 1
- (3) -1
- (4) Undefined

22. Which of the following binary operations is equivalent to decimal subtraction ?

- (1) 2's complement addition
- (2) Logical AND
- (3) Logical OR
- (4) XOR

23. The ASCII value of capital letter 'A' is :

- (1) 65
- (2) 97
- (3) 66
- (4) 64

24. What is the value of hexadecimal number 1A in decimal ?

- (1) 26
- (2) 21
- (3) 17
- (4) 31

25. What is the binary representation of the decimal fraction 0.125 ?

- (1) 0.1
- (2) 0.01
- (3) 0.001
- (4) 0.110101

26. The program counter (PC) holds :

- (1) Address of current instruction
- (2) Opcode
- (3) Address of next instruction
- (4) Value of accumulator

27. The resolution of a monitor is measured in :

- (1) Hertz
- (2) Pixels
- (3) Bits
- (4) Inches

28. Which of the following is an impact printer?

- (1) Inkjet printer
- (2) Laser printer
- (3) Dot matrix printer
- (4) Thermal printer

29. Thermal printers are commonly used in:

- (1) Banking
- (2) Retail receipt systems
- (3) Book publishing
- (4) Plotting graphics

30. What is the base of octal number system ?

- (1) 4
- (2) 8
- (3) 7
- (4) 16

31. Hexadecimal equivalent of binary 11011011 is :

- (1) DB
- (2) D3
- (3) CD
- (4) BC

32. Which of the following tag is used to make the underlined text in HTML ?

- (1) <i>
- (2)
- (3) <u>
- (4) <pre>

33. Which of following is **not** an attribute of <form> tag in HTML ?

- (1) Action
- (2) Method
- (3) name
- (4) url

34. BIOS stands for :

- (1) Business input output system
- (2) Basic input output system
- (3) Business input open system
- (4) Business input office system

35. Which law is represented by $A + AB = A$?

- (1) Distributive Law
- (2) Absorption Law
- (3) Idempotent Law
- (4) Associative Law

36. DeMorgan's law states :

(1) $(A \cdot B)' = A' \cdot B'$

(2) $(A + B)' = A' + B'$

(3) $(A + B)' = A' \cdot B'$

(4) $(A \cdot B)' = A' \cdot B'$

37. What is the **correct** HTML tag to create a hyperlink ?

(1) <link>

(2) <href>

(3) <a>

(4) <url>

38. Which protocol is used for sending emails ?

(1) FTP

(2) POP

(3) SMTP

(4) HTTP

39. Which of the following protocols is used to retrieve emails from a server ?

(1) SMTP

(2) HTTP

(3) POP3

(4) FTP

40. The main advantage of high-level languages over assembly languages is :

(1) Faster execution

(2) Less memory usage

(3) Platform dependency

(4) Easier to write and maintain

41. Marathon is to race as hibernation is to :

- (1) winter
- (2) bear
- (3) dream
- (4) sleep

42. Arrange the words given below in a meaningful sequence.

I. Word II. Paragraph III. Sentence IV. Letters V. Phrase

- (1) IV, I, V, II, III
- (2) IV, I, III, V, II
- (3) IV, II, V, I, III
- (4) IV, I, V, III, II

43. Rearrange P, Q, R and S to produce the **correct** sentence :

When he

P : did not know

Q : he was nervous and

R : heard the hue and cry at midnight

S : what to do

The Proper sequence should be :

- (1) RQPS
- (2) QSPR
- (3) SQPR
- (4) PQRS

44. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15% ?

- (1) Rs. 21,000
- (2) Rs. 22,500
- (3) Rs. 25,300
- (4) Rs. 25,800

45. A, B, C, D, and E are sitting in a row. B is to the right of A but to the left of C, D is to the right of C. Who is sitting at the extreme right ?
- (1) B (2) D
(3) E (4) A
46. Two trains running in opposite directions cross a man standing on the platform in 27 seconds and 17 seconds respectively and they cross each other in 23 seconds. The ratio of their speeds is :
- (1) 1 : 3 (2) 3 : 2
(3) 3 : 4 (4) None of these
47. In the first 10 overs of a cricket game, the run rate was only 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs ?
- (1) 6.25 (2) 6.5
(3) 6.75 (4) 7
48. The average of 20 numbers is zero. Of them, at the most, how many may be greater than zero ?
- (1) 0 (2) 1
(3) 10 (4) 19
49. The greatest number of four digits which is divisible by 15, 25, 40 and 75 is :
- (1) 9000 (2) 9400
(3) 9600 (4) 9800

50. Choose the **correct** alternative that will continue the same pattern and replace the question mark in the given series : 1, 1, 4, 8, 9, 27, 16, ?

- (1) 32 (2) 64
(3) 81 (4) 256

51. Best summary for the paragraph :

"Libraries are no longer just about books. They offer digital resources, workshops, and community spaces. Their role in society has evolved."

- (1) Libraries are losing popularity.
(2) Libraries are traditional institutions.
(3) Libraries have shut down physical spaces.
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52. A clock shows 4:20. What is the angle between the hour and minute hands ?

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- I. 80% of the team consists of spinners.
II. The opening batsmen were spinners.

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(3) 16 (4) 24
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Conclusions :

I. Some actors are dancers.

II. No singer is actor.

(1) Only (I) conclusion follows

(2) Only (II) conclusion follows

(3) Either (I) or (II) follows

(4) Neither (I) nor (II) follows

60. 120, 99, 80, 63, 48, ?

(1) 35

(2) 38

(3) 39

(4) 40

61. Which term of the series 5, 10, 20, 40, is 1280 ?

(1) 10th

(2) 9th

(3) 8th

(4) None of these

62. Which of the following will not be a number of the series 1, 8, 27, 64, 125, ?

(1) 256

(2) 512

(3) 729

(4) 1000

63. In this type of questions, one term in the number series is wrong. Find out the wrong term. 46080, 3840, 384, 48, 24, 2, 1.

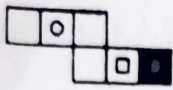
(1) 384

(2) 48

(3) 24

(4) 2

64. Choose the box that is similar to the box formed from folding the given sheet of paper (X).



(X)



(A)



(B)



(C)



(D)

- (1) (A) and (B) only
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- (1) 2 (2) 6 or 2
- (3) 6 (4) 8
67. If BURNER is coded as CASOIS then how will ALIMENT be coded ?
- (1) BKJLFMU (2) EKOLIMS
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68. Choose the missing terms out of the given alternatives :
CMM, EOO, GQQ,, KUU
- (1) GRR (2) GSS
(3) ISS (4) ITT
69. Look at this series : J14, L16,, P20, R22, What number should fill the blank ?
- (1) S24 (2) N18
(3) M18 (4) T24
70. Choose the **correct** alternative that will continue the same pattern and replace the question mark in the given series : 20, 20, 19, 16, 17, 13, 14, 11, ?, ?
- (1) 10, 10 (2) 10, 11
(3) 13, 14 (4) 13, 16
71. The start and end points in a flowchart are represented by :
- (1) Circle (2) Rectangle
(3) Oval (4) Triangle
72. A process in an OS is:
- (1) A passive program
(2) A binary file
(3) An active program in execution
(4) Part of compiler

73. Which of the following is a sequential access storage device ?

- (1) CD ROM
- (2) Magnetic Tape
- (3) Flash Drive
- (4) Hard Disk

74. A DVD is an example of which kind of storage ?

- (1) Optical
- (2) Magnetic
- (3) Semiconductor
- (4) Cloud

75. The smallest unit of memory used to store a single character is :

- (1) Bit
- (2) Byte
- (3) Word
- (4) Nibble

76. In memory hierarchy, which memory is closest to the CPU ?

- (1) Hard Disk
- (2) Cache
- (3) RAM
- (4) SSD

77. What is the dual of the Boolean expression $A + 0 = A$?

- (1) $A \cdot 1 = A$
- (2) $A + 1 = 0$
- (3) $A \cdot 0 = A$
- (4) $A + 0 = 1$

78. Which logic gate gives output 1 when both inputs are different ?

- (1) AND
- (2) OR
- (3) XOR
- (4) NOR

79. Which Boolean law is used in this equation ?

$$A + A = A ?$$

- (1) Idempotent Law
- (2) Absorption Law
- (3) Domination Law
- (4) Distributive Law

80. 2's complement of 0001 is :

- (1) 1001
- (2) 1110
- (3) 1111
- (4) 0110

81. The sum of first 5 terms of an A. P. with first term 2 and common difference 3 is :

- (1) 30
- (2) 35
- (3) 40
- (4) 45

82. Give the another representation of the following set : $\{x \in N \mid x \leq 36 \text{ and } x \text{ divides } 36\}$

- (1) $\{1, 2, 3, 4, 6, 8, 12, 18, 36\}$
- (2) $\{1, 2, 3, 4, 8, 12, 18, 36\}$
- (3) $\{1, 2, 3, 4, 6, 9, 12, 18, 36\}$
- (4) $\{1, 2, 4, 6, 8, 9, 12, 18, 36\}$

83. Number of permutations of the word "LEVEL" is :

- (1) 120
- (2) 60
- (3) 30
- (4) 20

84. If events A and B are such that $P(A) = 0.6$, $P(B) = 0.5$, and $P(A \cup B) = 0.9$, what is $P(A \cap B)$?
- (1) 0.1 (2) 0.2 (3) 0.3 (4) 0.4
85. Which of the following is **not** true about the correlation coefficient r ?
- (1) $r \in [-1, 1]$
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- (3) $x = \pi$ only (4) $x = 0, \pi, 2\pi$
89. The scalar (dot) product of two perpendicular vectors is :
- (1) 1 (2) 0
- (3) -1 (4) Can't be determined

90. The roots of the quadratic equation $x^2 - 5x + 6 = 0$ are :
- (1) 2, 3 (2) -2, -3
(3) -1, -6 (4) 1, 6
91. A nibble is :
- (1) 2 bits (2) 4 bits
(3) 8 bits (4) 16 bits
92. 1 Terabyte (TB) = ?
- (1) 1000 GB (2) 1024 GB
(3) 1024 MB (4) 2048 GB
93. What does CC in an email stand for ?
- (1) Content Copy (2) Central Code
(3) Carbon Copy (4) Country Code
94. What is the **correct** tag for inserting an image in HTML?
- (1) <image> (2)
(3) <src> (4) <pic>
95. What does "URL" stand for ?
- (1) Uniform Resolution Locator
(2) Uniform Resource Locator
(3) Unified Resource Link
(4) Universal Register Locator

96. Which of the following is **not** an operating system ?
- (1) Linux (2) Windows
(3) Unix (4) Oracle
97. Which of the following is used to translate domain names to IP addresses ?
- (1) DHCP (2) FTP
(3) DNS (4) IPX
98. Which internet service allows you to access remote computers ?
- (1) FTP (2) Telnet
(3) HTTP (4) DNS
99. Which of the following is **not** a search engine ?
- (1) Bing (2) Google
(3) Mozilla Firefox (4) DuckDuckGo
100. The most commonly used Internet application for downloading/uploading files is:
- (1) Telnet (2) FTP
(3) SMTP (4) POP

Total No. of Printed Pages : 21

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ARE ASKED TO DO SO)

C

PG-EE-July, 2025

SET-Y

SUBJECT : MCA/Computer Science

10567

Sr. No.

Time : 1½ Hours

Max. Marks : 100

Total Questions : 100

Roll No. (in figures) _____ (in words) _____

Name _____ Date of Birth _____

Father's Name _____ Mother's Name _____

Date of Examination _____

(Signature of the Candidate)

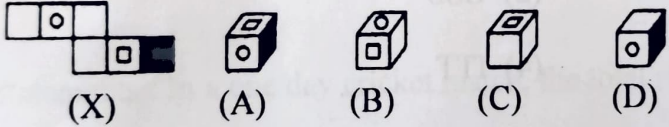
(Signature of the Invigilator)

**CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE
STARTING THE QUESTION PAPER.**

- 1. All questions are compulsory.**
- The candidates **must return** the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
- Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
- Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.
- The candidate **must not** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers **must not** be ticked in the question booklet.
- There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.**
- Use only **Black or Blue Ball Point Pen** of good quality in the OMR Answer-Sheet.
- Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.**

PG-EE-July, 2025/(MCA/Computer Science)(SET-Y)/(C)

SEAL

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31. Fervid is most similar to :
- (1) delightful (2) difficult
(3) obstinate (4) ardent
32. Choose the most appropriate substitute for the description: A person interested in collecting, studying and selling of old things :
- (1) Antiquarian (2) Junk-dealer
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33. What is the tense of following sentence : It had rained heavily in the night.
- (1) simple past tense (2) past perfect tense
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- (1) of, at (2) of, in
(3) at, for (4) of, of

35. Choose the alternative which best expresses the meaning of following idiom/phrase.

To cry wolf

- (1) To listen eagerly
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- (2) Magnetic Tape
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- (1) Optical
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47. What is the dual of the Boolean expression $A + 0 = A$?

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51. Marathon is to race as hibernation is to :

- (1) winter (2) bear
(3) dream (4) sleep

52. Arrange the words given below in a meaningful sequence.

I. Word II. Paragraph III. Sentence IV. Letters V. Phrase

- (1) IV, I, V, II, III (2) IV, I, III, V, II
(3) IV, II, V, I, III (4) IV, I, V, III, II

53. Rearrange P, Q, R and S to produce the **correct** sentence :

When he

P : did not know

Q : he was nervous and

R : heard the hue and cry at midnight

S : what to do

The Proper sequence should be :

- (1) RQPS (2) QSPR (3) SQPR (4) PQRS

54. When a plot is sold for Rs. 18,700, the owner loses 15%. At what price must that plot be sold in order to gain 15% ?
- (1) Rs. 21,000 (2) Rs. 22,500
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64. What is the value of hexadecimal number 1A in decimal ?
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65. What is the binary representation of the decimal fraction 0.125 ?

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- (3) 0.001
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66. The program counter (PC) holds :

- (1) Address of current instruction
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- (3) Address of next instruction
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68. Which of the following is an impact printer?

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- (3) Dot matrix printer
- (4) Thermal printer

69. Thermal printers are commonly used in:

- (1) Banking
- (2) Retail receipt systems
- (3) Book publishing
- (4) Plotting graphics

70. What is the base of octal number system ?

- (1) 4
- (2) 8
- (3) 7
- (4) 16

71. A nibble is :

- (1) 2 bits
- (2) 4 bits
- (3) 8 bits
- (4) 16 bits

72. 1 Terabyte (TB) = ?

- (1) 1000 GB
- (2) 1024 GB
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73. What does CC in an email stand for ?

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74. What is the **correct** tag for inserting an image in HTML?

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- (3) <src>
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- (1) Uniform Resolution Locator
- (2) Uniform Resource Locator
- (3) Unified Resource Link
- (4) Universal Register Locator

76. Which of the following is **not** an operating system ?

- (1) Linux
- (2) Windows
- (3) Unix
- (4) Oracle

77. Which of the following is used to translate domain names to IP addresses ?
- (1) DHCP (2) FTP
(3) DNS (4) IPX
78. Which internet service allows you to access remote computers ?
- (1) FTP (2) Telnet
(3) HTTP (4) DNS
79. Which of the following is **not** a search engine ?
- (1) Bing (2) Google
(3) Mozilla Firefox (4) DuckDuckGo
80. The most commonly used Internet application for downloading/uploading files is:
- (1) Telnet (2) FTP
(3) SMTP (4) POP
81. Choose the **correct** alternative that will continue the same pattern and replace the question mark in the given series : 1, 3, 4, 8, 15, 27, ?
- (1) 37 (2) 44
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82. In this question, one term in the number series is wrong. Find out the wrong term.
89, 78, 86, 80, 85, 82, 83
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(3) 86 (4) 78

83. BCB DED FGF HIH What pattern should fill the blank ?
(1) JKJ (2) HJH
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84. How many such letter-pairs are there in the word SMUGGLER having same no. of letters left between them as they have in the series ?
(1) 2 (2) 3
(3) 4 (4) 1
85. If RAVE is coded as SXWB then how will SCAW be coded ?
(1) TDBO (2) TZBK
(3) PZXX (4) TVXX
86. If $A + B$ means A is the brother of B; $A - B$ means A is the sister of B and $A \times B$ means A is the father of B. Which of the following means that C is the son of M ?
(1) $M - N \times C + F$
(2) $F - C + N \times M$
(3) $N + M - F \times C$
(4) $M \times N - C + F$
87. Y is in the East of X which is in the North of Z. If P is in the South of Z, then in which direction of Y, is P ?
(1) North (2) South
(3) South-East (4) None of these

88. Statements :

Some dogs are cats.

All cats are animals.

Conclusions :

I. Some dogs are animals.

II. All dogs are animals.

(1) Only I follows

(2) Only II follows

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89. Sentence : "Before you judge someone, walk a mile in their shoes"

What is the punch line ?

(1) You'll understand their journey.

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90. Statement : Should social media be banned during elections ?

Argument I : Yes, it can spread misinformation.

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(1) Only I is strong

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91. Hexadecimal equivalent of binary 11011011 is :
- (1) DB (2) D3
(3) CD (4) BC
92. Which of the following tag is used to make the underlined text in HTML ?
- (1) <i> (2)
(3) <u> (4) <pre>
93. Which of following is **not** an attribute of <form> tag in HTML ?
- (1) Action (2) Method
(3) name (4) url
94. BIOS stands for :
- (1) Business input output system
(2) Basic input output system
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95. Which law is represented by $A + AB = A$?
- (1) Distributive Law
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96. DeMorgan's law states :
- (1) $(A \cdot B)' = A' \cdot B'$
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98. Which protocol is used for sending emails ?
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100. The main advantage of high-level languages over assembly languages is :
- (1) Faster execution
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(DO NOT OPEN THIS QUESTION BOOKLET BEFORE TIME OR UNTIL YOU
ARE ASKED TO DO SO)

D

PG-EE-July, 2025

SET-Y

SUBJECT : MCA/Computer Science

Sr. No.10568.....

Time : 1¼ Hours

Max. Marks : 100

Total Questions : 100

Roll No. (in figures) _____ (in words) _____

Name _____ Date of Birth _____

Father's Name _____ Mother's Name _____

Date of Examination _____

(Signature of the Candidate)

(Signature of the Invigilator)

**CANDIDATES MUST READ THE FOLLOWING INFORMATION/INSTRUCTIONS BEFORE
STARTING THE QUESTION PAPER.**

1. **All questions are compulsory.**
2. The candidates **must return** the question booklet as well as OMR Answer-Sheet to the Invigilator concerned before leaving the Examination Hall, failing which a case of use of unfair-means / mis-behaviour will be registered against him / her, in addition to lodging of an FIR with the police. Further the answer-sheet of such a candidate will not be evaluated.
3. Keeping in view the transparency of the examination system, carbonless OMR Sheet is provided to the candidate so that a copy of OMR Sheet may be kept by the candidate.
4. Question Booklet along with answer key of all the A, B, C & D code shall be got uploaded on the University Website immediately after the conduct of Entrance Examination. Candidates may raise valid objection/complaint if any, with regard to discrepancy in the question booklet/answer key within 24 hours of uploading the same on the University Website. The complaint be sent by the students to the Controller of Examinations by hand or through email. Thereafter, no complaint in any case, will be considered.
5. The candidate **must not** do any rough work or writing in the OMR Answer-Sheet. Rough work, if any, may be done in the question booklet itself. Answers **must not** be ticked in the question booklet.
6. **There will be no negative marking. Each correct answer will be awarded one full mark. Cutting, erasing, overwriting and more than one answer in OMR Answer-Sheet will be treated as incorrect answer.**
7. Use only **Black or Blue Ball Point Pen** of good quality in the OMR Answer-Sheet.
8. **Before answering the questions, the candidates should ensure that they have been supplied correct and complete booklet. Complaints, if any, regarding misprinting etc. will not be entertained 30 minutes after starting of the examination.**

PG-EE-July, 2025/(MCA/Computer Science)(SET-Y)/(D)

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Some dogs are cats.

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41. Fervid is most similar to :

- | | |
|----------------|---------------|
| (1) delightful | (2) difficult |
| (3) obstinate | (4) ardent |

42. Choose the most appropriate substitute for the description: A person interested in collecting, studying and selling of old things :

- | | |
|-----------------|------------------|
| (1) Antiquarian | (2) Junk-dealer |
| (3) Crank | (4) Archealogist |

43. What is the tense of following sentence : It had rained heavily in the night.
- (1) simple past tense
 - (2) past perfect tense
 - (3) past continuous tense
 - (4) none of these
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- (1) of, at
 - (2) of, in
 - (3) at, for
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- To cry wolf
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Which of the following is **not** stated in the passage ?

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 - (3) Flash Drive
 - (4) Hard Disk
54. A DVD is an example of which kind of storage ?
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 - (2) Magnetic
 - (3) Semiconductor
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- (1) Uniform Resolution Locator
- (2) Uniform Resource Locator
- (3) Unified Resource Link
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66. Which of the following is **not** an operating system ?

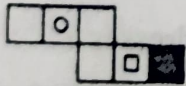




- (1) Linux
- (2) Windows
- (3) Unix
- (4) Oracle

67. Which of the following is used to translate domain names to IP addresses ?

- (1) DHCP
- (2) FTP
- (3) DNS
- (4) IPX

68. Which internet service allows you to access remote computers ?

- (1) FTP
- (2) Telnet
- (3) HTTP
- (4) DNS

69. Which of the following is **not** a search engine ?
- (1) Bing (2) Google
(3) Mozilla Firefox (4) DuckDuckGo
70. The most commonly used Internet application for downloading/uploading files is:
- (1) Telnet (2) FTP (3) SMTP (4) POP
71. Which term of the series 5, 10, 20, 40, is 1280 ?
- (1) 10th (2) 9th (3) 8th (4) None of these
72. Which of the following will not be a number of the series 1, 8, 27, 64, 125, ?
- (1) 256 (2) 512 (3) 729 (4) 1000
73. In this type of questions, one term in the number series is wrong. Find out the wrong term. 46080, 3840, 384, 48, 24, 2, 1.
- (1) 384 (2) 48 (3) 24 (4) 2
74. Choose the box that is similar to the box formed from folding the given sheet of paper (X).
- (X) 
- (A) 
- (B) 
- (C) 
- (D) 
- (1) (A) and (B) only
(2) (B), (C) and (D) only
(3) (D) only
(4) (C) and (D) only

75. Sachin walks 20 km towards North. He turns left and walks 40 km. He again turns left and walks 20 km. Finally he moves 20 km after turning to the left. How far is he from his starting position ?
- (1) 20 km. (2) 30 km.
(3) 50 km. (4) 60 km.
76. In a certain code language '765' means—'Man Illness Hard-working', '478' means—'Illness Hard Blood-Pressure', '826' means—'Blood-Pressure Lazy Hard-working', then which code has been used for 'Lazy' ?
- (1) 2 (2) 6 or 2
(3) 6 (4) 8
77. If BURNER is coded as CASOIS then how will ALIMENT be coded ?
- (1) BKJLFMU (2) EKOLIMS
(3) EMONIOU (4) BRJSFTU
78. Choose the missing terms out of the given alternatives :
CMM, EOO, GQQ,, KUU
- (1) GRR (2) GSS
(3) ISS (4) ITT
79. Look at this series : J14, L16,, P20, R22, What number should fill the blank ?
- (1) S24 (2) N18
(3) M18 (4) T24

80. Choose the **correct** alternative that will continue the same pattern and replace the question mark in the given series : 20, 20, 19, 16, 17, 13, 14, 11, ?, ?

(1) 10, 10

(2) 10, 11

(3) 13, 14

(4) 13, 16

81. Best summary for the paragraph :

"Libraries are no longer just about books. They offer digital resources, workshops, and community spaces. Their role in society has evolved."

(1) Libraries are losing popularity.

(2) Libraries are traditional institutions.

(3) Libraries have shut down physical spaces.

(4) Libraries have evolved to include digital functions.

82. A clock shows 4:20. What is the angle between the hour and minute hands ?

(1) 0°

(2) 10°

(3) 20°

(4) 30°

83. Statements : In a one day cricket match, the total runs made by a team were 200. Out of these 160 runs were made by spinners.

Conclusions :

I. 80% of the team consists of spinners.

II. The opening batsmen were spinners.

(1) Only conclusion I follows

(2) Only conclusion II follows

(3) Both I and II follow

(4) Neither I nor II follows

84. A number of friends decided to go on a picnic and planned to spend Rs. 96 on eatables. Four of them, however, did not turn up. As a consequence, the remaining ones had to contribute Rs. 4 each extra. The number of those who attended the picnic was :
- (1) 8 (2) 12
(3) 16 (4) 24
85. A pineapple costs Rs. 7 each. A watermelon costs Rs. 5 each. X spends Rs. 38 on these fruits. The number of pineapples purchased is :
- (1) 2 (2) 3
(3) 4 (4) Data inadequate
86. ELFA, GLHA, ILJA,, MLNA
- (1) OLPA (2) KLMA
(3) LLMA (4) KLLA
87. A alone can do a piece of work in 6 days and B alone in 8 days. A and B undertook to do it for Rs. 3200. With the help of C, they completed the work in 3 days. How much is to be paid to C ?
- (1) Rs. 375 (2) Rs. 400
(3) Rs. 600 (4) Rs. 800
88. An error 2% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is :
- (1) 2% (2) 2.02 %
(3) 4% (4) 4.04 %

89. Statements : Some actors are singers. All the singers are dancers.

Conclusions :

I. Some actors are dancers.

II. No singer is actor.

(1) Only (I) conclusion follows

(2) Only (II) conclusion follows

(3) Either (I) or (II) follows

(4) Neither (I) nor (II) follows

90. 120, 99, 80, 63, 48, ?

(1) 35

(2) 38

(3) 39

(4) 40

91. The sum of first 5 terms of an A. P. with first term 2 and common difference 3 is :

(1) 30

(2) 35

(3) 40

(4) 45

92. Give the another representation of the following set : $\{x \in N \mid x \leq 36 \text{ and } x \text{ divides } 36\}$

(1) $\{1, 2, 3, 4, 6, 8, 12, 18, 36\}$

(2) $\{1, 2, 3, 4, 8, 12, 18, 36\}$

(3) $\{1, 2, 3, 4, 6, 9, 12, 18, 36\}$

(4) $\{1, 2, 4, 6, 8, 9, 12, 18, 36\}$

93. Number of permutations of the word "LEVEL" is :
- (1) 120 (2) 60
(3) 30 (4) 20
94. If events A and B are such that $P(A) = 0.6$, $P(B) = 0.5$, and $P(A \cup B) = 0.9$, what is $P(A \cap B)$?
- (1) 0.1 (2) 0.2
(3) 0.3 (4) 0.4
95. Which of the following is **not** true about the correlation coefficient r ?
- (1) $r \in [-1, 1]$
(2) $r = 0$ means no linear relationship
(3) $r = 1$ implies perfect positive relation
(4) $r = 1$ implies causation
96. The kurtosis of a normal distribution is :
- (1) 0 (2) 1
(3) 3 (4) -1
97. In triangle ABC, if $a^2 = b^2 + c^2 - 2bc \cos A$, it is known as :
- (1) Pythagoras theorem (2) Law of sines
(3) Cosine rule (4) Sine rule

98. The solution of the equation $\cos(2x) = 1$ in $[0, 2\pi]$ is :

- (1) $x = 0$ only
- (2) $x = 0, \pi$
- (3) $x = \pi$ only
- (4) $x = 0, \pi, 2\pi$

99. The scalar (dot) product of two perpendicular vectors is :

- (1) 1
- (2) 0
- (3) -1
- (4) Can't be determined

100. The roots of the quadratic equation $x^2 - 5x + 6 = 0$ are :

- (1) 2, 3
- (2) -2, -3
- (3) -1, -6
- (4) 1, 6

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Q. NO.	A	B	C	D
1	3	3	2	1
2	3	3	1	1
3	3	1	3	1
4	2	1	4	1
5	4	2	1	3
6	3	4	1	3
7	3	4	3	2
8	4	1	3	3
9	2	3	2	2
10	1	3	1	2
11	3	4	4	1
12	3	1	2	3
13	1	2	4	4
14	1	1	1	2
15	2	2	3	2
16	4	2	4	3
17	4	1	2	3
18	1	1	4	3
19	3	3	1	3
20	3	3	1	4
21	4	1	3	4
22	2	1	3	4
23	4	1	3	1
24	1	1	2	3
25	3	3	4	2
26	4	3	3	2
27	2	2	3	1
28	4	3	4	4
29	1	2	2	3
30	1	2	1	2
31	4	1	4	3
32	4	3	1	3
33	1	4	2	1
34	3	2	1	1
35	2	2	2	2
36	2	3	2	4
37	1	3	1	4
38	4	3	1	1
39	3	3	3	3
40	2	4	3	3
41	2	4	3	4
42	1	4	3	1
43	3	1	2	2
44	4	3	2	1
45	1	2	2	2
46	1	2	2	2
47	3	1	1	1
48	3	4	3	1
49	2	3	1	3
50	1	2	3	3

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Q. NO.	A	B	C	D
51	1	4	4	3
52	3	2	4	3
53	4	4	1	2
54	2	1	3	2
55	2	3	2	2
56	3	4	2	2
57	3	2	1	1
58	3	4	4	3
59	3	1	3	1
60	4	1	2	3
61	3	2	1	2
62	3	1	1	2
63	2	3	1	3
64	2	4	1	2
65	2	1	3	2
66	2	1	3	4
67	1	3	2	3
68	3	3	3	2
69	1	2	2	3
70	3	1	2	2
71	1	3	2	2
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79	2	1	3	2
80	2	3	2	1
81	2	3	3	4
82	2	3	3	2
83	3	3	1	4
84	2	2	1	1
85	2	4	2	3
86	4	3	4	4
87	3	3	4	2
88	2	4	1	4
89	3	2	3	1
90	2	1	3	1
91	4	2	1	3
92	1	2	3	3
93	2	3	4	3
94	1	2	2	2
95	2	2	2	4
96	2	4	3	3
97	1	3	3	3
98	1	2	3	4
99	3	3	3	2
100	3	2	4	1

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