



Question Booklet Sl. No.

Series

A

A

CODE : CEM – 1/25

Write here Roll Number and Answer Sheet No.

Roll No.

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Answer Sheet No.

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Duration : 2 Hours

Total Marks : 200

Declaration by Invigilator :

I Certify that I have checked that the Roll Number and the Answer Sheet Number written by the Candidate on the question paper and the OMR Sheet are correct and the Answer Sheet Number matches the Question Booklet Number exactly.

Signature of the Invigilator with Name

Signature of the Candidate with Name

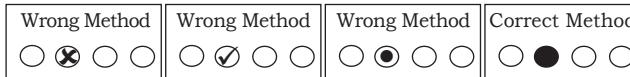
Read the following instructions carefully before you begin to answer the questions.

IMPORTANT INSTRUCTIONS TO CANDIDATES

1. The Roll No. is a **7** digit No., the candidate needs to circle the Roll No. in the Answer Sheet.
2. The appropriate Circle should be shaded for Roll No. This should be done carefully because only the shaded circles are scanned.
3. Valuation of Answer Sheet will be done on the computer. Candidate should not make any stray marks on the Answer Sheet, tamper with or mutilate it. Otherwise it will not be evaluated.
4. Please check all the pages of the Booklet carefully. In case of any defect, please ask the Invigilator for replacement of the Booklet.
5. You must not tear off or remove any sheet from this Booklet. The Answer Sheet must be handed over to the Invigilator before you leave the Examination Hall.
6. All questions are compulsory and each Question carries **2** marks.
7. **There is no negative marking for incorrect answers.**
8. This Booklet contains 100 questions. Candidates must note that there will be 4 Sections in the question paper :

Sections	Test Components	No. of Questions	Page No.
A	General Awareness	1-25	5 – 8
B	General Intelligence and Reasoning Ability	26-50	9 – 13
C	Arithmetical and Numerical Ability	51-75	14 – 17
D	Test of English Language and Comprehension	76-100	18 – 23

9. Use of Calculator/Palmtop/Laptop/Other Digital Instrument/Mobile/Cell Phone/Pager is **not** allowed.
10. Candidates found guilty of misconduct/using unfair means in the Examination Hall will be liable for appropriate penal/legal action.
11. **No Rough Work is to be done on the Answer Sheet and only single OMR Answer Sheet will be provided.**
12. This booklet contains **24** pages.
13. **Directions :** Each question or incomplete statement is followed by four alternative suggested answers or completions. In each case, you are required to select the one that correctly answers the question or completes the statement and blacken (●) appropriate circle a, b, c or d by Black Ball-Point Pen provided by the Board against the question concerned in the Answer Sheet.
14. Mark your answer by shading the appropriate circle against each question. The circle should be shaded completely without leaving any space. The correct method of shading is given below.



The Candidate must mark his/her response after careful consideration, as it is not possible to change the response once it is marked.

15. There is only one correct answer to each question. You should blacken (●) the circle of the appropriate column, viz., a, b, c or d. If you blacken (●) more than one circle against any one question, the answer will be treated as wrong.
16. Use the space for rough work given at the beginning of the Question Booklet only and not on the Answer Sheet.
17. **You are NOT required to mark your answers in this Booklet. All answers must be indicated in the Answer Sheet only.**



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SPACE FOR ROUGH WORK



**SECTION – A**
(General Awareness)

1. The Bagh Caves, consisting of Buddhist mural paintings are located in the State of
 - (a) Gujarat
 - (b) Andhra Pradesh
 - (c) Madhya Pradesh
 - (d) Jharkhand

2. The First Battle of Tarain was fought in
 - (a) 1191 AD
 - (b) 1026 AD
 - (c) 1206 AD
 - (d) 1398 AD

3. Which Article of the Indian Constitution states the duty of every citizen 'to protect and improve the natural environment, including forests, lakes, rivers and wildlife and to have compassion for living creatures' ?
 - (a) Article 81A(c)
 - (b) Article 51A(g)
 - (c) Article 41A(b)
 - (d) None of the above

4. What is the theme for International Yoga Day 2025 ?
 - (a) Yoga for One Earth One Health
 - (b) Yoga for Youth and Children of Vasudaiva Kutumbakam
 - (c) Yoga for Women Empowerment and Vikasith Bharath
 - (d) None of the above

5. Which of the following country unveiled the world's first carbon fiber high-speed train ?
 - (a) China
 - (b) Japan
 - (c) India
 - (d) Russia

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6. Vascular tissue responsible for the transport of food synthesized by leaves in plants
 - (a) Xylem
 - (b) Phloem
 - (c) Collenchyma
 - (d) None of the above
7. Who is the Chairman of the Inter-State Council in India ?
 - (a) Union Home Minister
 - (b) President
 - (c) Prime Minister
 - (d) None of the above
8. The Chairman of the Rajya Sabha submits his resignation letter to the
 - (a) Prime Minister
 - (b) Deputy Chairman of Rajya Sabha
 - (c) Speaker of Lok Sabha
 - (d) President
9. Which of the following Articles in the Indian Constitution deals with Fundamental Rights ?
 - (a) Article 36 to 51
 - (b) Article 10 to 21
 - (c) Article 12 to 35
 - (d) None of the above
10. Where was the 55th Meeting of the GST Council held ?
 - (a) New Delhi
 - (b) Mumbai
 - (c) Jaisalmer
 - (d) Kolkata
11. Syed Mushtaq Ali Trophy is associated with which of the following sports ?
 - (a) Table Tennis
 - (b) Swimming
 - (c) Cricket
 - (d) None of the above



12. The first edition of the ‘Siang Biodiversity Meet – 2024’ started in
(a) Arunachal Pradesh (b) Madhya Pradesh
(c) Uttar Pradesh (d) Himachal Pradesh

13. Which of the following is an East flowing river in India ?
(a) Godavari (b) Narmada
(c) Tapti (d) None of the above

14. Which of the following State achieved the top position in the State Food Safety Index (SFSI), 2024 ?
(a) Tamil Nadu (b) Sikkim
(c) Kerala (d) Bihar

15. The First Five-Year Plan in India was based on which economic growth model ?
(a) Mahalanobis Model
(b) Harrod-Domar Model
(c) Jawaharlal Nehru Model
(d) None of the above

16. The fluid part of the blood is called
(a) Plasma (b) White Blood Cells (WBC)
(c) Haemoglobin (d) None of the above

17. Vitamin A is _____ soluble vitamin.
(a) Protein (b) Water
(c) Fat (d) None of the above

18. Who is known as the “Missile Man of India” for his contribution to scientific research in defense ?
(a) Homi Bhabha (b) Dr. A. P. J. Abdul Kalam
(c) Vikram Sarabhai (d) None of the above



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SECTION – B
(General Intelligence and Reasoning Ability)

26. Study the following arrangement carefully and answer the question given below :

R D 1 5 E % K 3 J I 9 P 8 # A 2 B \$ K M 6 W @ N 4 © T * 7 F H

Which of the following is exactly in the middle between the tenth from the left end and the eighth from the right end ?

(a) \$ (b) # (c) B (d) 7

27. 'Melt' is related to 'Liquid' in the same way as 'Freeze' is related to

(a) Ice (b) Crystal (c) Water (d) Cubes

28. In the following question, choose the related word pair from the given alternatives.

Apple : Fruit :: Potato : ?

(a) Flower (b) Fruit
 (c) Sweet (d) Root

29. 'PUT' is related to 'QVU' in the same way 'TEA' is related to

(a) SDZ (b) VFB (c) UFB (d) SDB

30. Complete the following analogy.

9 : 81 :: 12 : ?

(a) 124 (b) 104 (c) 134 (d) 144

31. Find the odd pair of words.

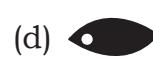
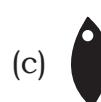
(a) Horse : Neigh
 (b) Sheep : Bleat
 (c) Owl : Hoot
 (d) Lion : Grunt

32. Find the odd one.

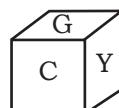
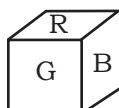
(a) NOPQ (b) JKLM
 (c) FGHI (d) ABCE

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33. Choose the correct option that will replace the question mark and continue the given figure series.



34. Three position of a cube are shown below. What will come opposite to face containing 'R'?



(a) Y
(c) W

(b) G
(d) C

35. If '×' means '+', '÷' means '−', '+' means '÷' and '−' means '×', then what should be the value of the given equation?

$$14 \times 4 \div 70 + 10 - 2 = ?$$

(a) 33
(c) 30

(b) 15
(d) 4

36. If $2^x = 16$, then the value of x is

(a) 4
(c) 2

(b) 3
(d) 1

37. A number is greater than 3 but less than 8. Also, it is greater than 6 but less than 10. The number is

(a) 5
(c) 7

(b) 6
(d) 8

38. If $5 + 7 = 21$ and $9 + 4 = 31$, then $7 + 9 =$

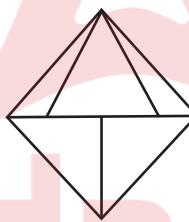
(a) 41
(c) 61

(b) 51
(d) 71

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39. Study the following information carefully and answer the question :
Following are the conditions for selecting a candidate in an organization.
The candidate must – (i) be a graduate with at least 60% marks.
(ii) be at least 21 years and not more than 28 years as on 01-04-2017.
(iii) have secured at least 60% marks in written test. (iv) have secured at least 50% marks in interview in the case of candidate who fulfills all conditions except – (a) At (ii) above, but is a post graduate with at least 60% marks, his case to be referred as Manager. (b) at (iv) above, but has secured at least 35% marks in interview and at least 70% marks in written test, his case to be referred as Assistant.
Megha was born on 19 March 1991. She secured 65% marks in B.Com. She also secured 62% marks in both written test and interview. Which of the following will be a course of action, if Megha applies for the job ?
(a) Megha will be selected
(b) Data provided are inadequate to take the decision
(c) Megha will not be selected
(d) Megha will be offered as Manager post

40. How many triangles are there in the given figure ?



(a) 8 (b) 12 (c) 10 (d) 9

41. Arrange the given words in the sequence in which they occur in the dictionary.

1. Electric
2. Elegant
3. Election
4. Element
5. Elevator

(a) 2, 3, 4, 5, 1
(b) 2, 1, 3, 4, 5
(c) 3, 1, 2, 4, 5
(d) 3, 5, 4, 2, 1



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Direction (Q. No. 44 and 45) : In each of the following questions, select the one which is different from the other three responses.

44. (a) Man = 13114
(b) Ram = 18113
(c) Jug = 10217
(d) Hub = 82110

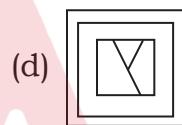
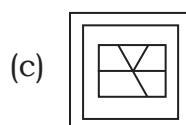
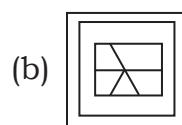
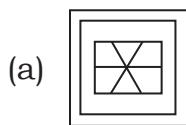
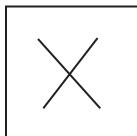
45. (a) PQ (b) AB
(c) VW (d) MO

46. Select the term that will come in the place of ‘?’
1, 4, 9, ?, 25, 36
(a) 16
(b) 20
(c) 15
(d) 22

47. If A = 1, ACE = 9, then ART = ?
(a) 29 (b) 38
(c) 10 (d) 39

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48. From the given answer figures, choose the one in which the question figure is hidden/embedded.



49. Naresh's age is 4 years less than twice the age of his brother. Which of the following represents the equation to find his age ?

(a) $2x + 4$

(b) $4x + 4$

(c) $x - 4$

(d) $2x - 4$

50. If the first day of the year (other than the leap year) was Friday, then which was the last day of that year ?

(a) Monday

(b) Friday

(c) Saturday

(d) Sunday

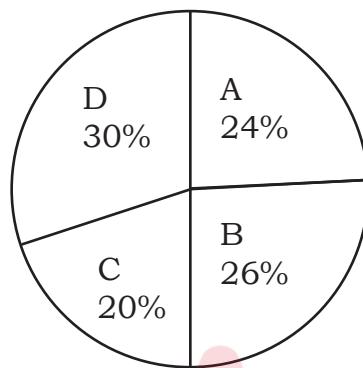
**CEM – 1/25****SECTION – C**
(Arithmetical and Numerical Ability)51. If $s^2 + 576 = (25)^2$, then $s =$ (a) 23 (b) 20 (c) 7 (d) 852. $\sqrt[3]{64} - \sqrt[3]{125} =$ (a) -1 (b) -2 (c) 1 (d) $-\sqrt[3]{61}$ 53. $817 \div 43 \times 21 =$ (a) 371 (b) 383 (c) 399 (d) 40954. The value of $3\frac{1}{7} \times \frac{7}{3} - 6\frac{3}{7} \times \frac{7}{3}$ is(a) $\frac{23}{3}$ (b) $\frac{-23}{3}$ (c) $\frac{23}{21}$ (d) $\frac{-23}{21}$ 55. If $\sqrt{\frac{1}{100}} \times \sqrt{\frac{1}{121}} \times 20\% \text{ of } x = \frac{1}{110}$, then $x =$ (a) $\frac{1}{20}$ (b) 5 (c) $\frac{1}{5}$ (d) None of these56. The value of $0.1 \times \frac{1}{100} \times 0.001 \times 10^4$ is(a) 0.01 (b) 0.1 (c) 1 (d) 10



57. Study the following Pie-chart and answer the question that follow :

Distribution of money among 4 family members by head of the family.

Total amount = Rs. 90,000.



Ratio between C and D's share of money

(a) 1 : 3 (b) 30 : 29 (c) 21 : 30 (d) 2 : 3

58. What part of 400 is 80 ?

(a) $\frac{2}{5}$ (b) $\frac{1}{5}$ (c) $\frac{3}{7}$ (d) $\frac{1}{4}$

59. If $12\frac{1}{2}\%$ of 200 = $\frac{3x}{2}$, then $x =$

(a) 75 (b) $\frac{3}{50}$ (c) $\frac{50}{3}$ (d) $\frac{20}{3}$

60. The LCM of 2, 3 and 10 is

(a) 60 (b) 1 (c) 30 (d) 20

61. If LCM and HCF of 2 numbers 15 and b are 60 and 3 respectively. The value of b is

(a) 24 (b) 12 (c) 36 (d) None of these

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62. HCF of 45 and 105 is 15. Find their LCM.

(a) 305 (b) 315 (c) 3125 (d) 405

63. The HCF of 52 and 130 is

(a) 13 (b) 1300 (c) 52 (d) 26

64. If angles of a triangle are in the ratio $1 : 2 : 3$, find the smallest angle.

(a) 15° (b) 30° (c) 45° (d) 60°

65. In a class of 60 students, 15 are boys. Find the ratio of girls and boys.

(a) $1 : 2$ (b) $3 : 1$ (c) $2 : 3$ (d) $3 : 2$

66. The original price of a book was Rs. 700. It was decreased by Rs. 50. What is the percentage decrease on the book price ?

(a) 6.14% (b) 3.5% (c) 8% (d) 7.14%

67. Find the average of $3, -7, 6, 12$ and -2 .

(a) 2.4 (b) -3.6 (c) 6 (d) -2.4

68. In the first 10 overs of a cricket match, the run rate was 3.2. What should be the run rate in the remaining 40 overs to reach the target of 282 runs ?

(a) 6.25 (b) 6.5 (c) 6.75 (d) 7

69. There is a profit of 20%, when an article is sold at Rs. 84. What will be the profit percentage, if the article is sold at Rs. 100 ?

(a) 42.85% (b) 25% (c) 40% (d) 45%

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70. Arjun invested an amount for 3 years at 9% p.a. simple interest. He got an amount of Rs. 19,050 at the end of 3 years. The amount he invested was
(a) Rs. 14,500 (b) Rs. 11,050 (c) Rs. 10,950 (d) Rs. 15,000

71. A sum of money at compound interest doubles itself in 10 years. It will become 4 times itself in
(a) 25 years (b) 30 years
(c) 20 years (d) None of these

72. If the circumference of a circle is decreased by 50%, then the percentage of decrease in its area is
(a) 25% (b) 50% (c) 60% (d) 75%

73. A and B can do a piece of work in 20 days and 45 days respectively. If the total of Rs. 910 is paid for the work, then B gets
(a) Rs. 280 (b) Rs. 420 (c) Rs. 390 (d) Rs. 260

74. 12 men can complete $\frac{1}{3}$ rd of the work in 8 days. In how many days can 16 men complete the same work ?
(a) 18 days (b) 12 days
(c) 24 days (d) 20 days

75. A 175 meter long train crosses a 35 meter platform in 12 secs. What is the speed of the train in km/hr ?
(a) 42 (b) 64 (c) 63 (d) 59



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SECTION – D
(Test of English Language and Comprehension)

Direction (Q. No. 76 and 77) : The sentence given below is divided into three sections marked (a), (b) and (c). Read the sentence carefully and mark the section that contains an error. If there is no error in the sentence, mark (d) as your answer.

76. childrens/show/a partiality for sweetmeats/no error
 (a) (b) (c) (d)

77. she/have great affection/for her grandchildren/no error
 (a) (b) (c) (d)

Direction (Q. No. 78 and 79) : Fill in the blanks by choosing right option from the four alternatives given below them.

78. Jack or Tom _____ to blame.
 (a) are (b) have
 (c) is (d) were

79. This is the book _____ I lost.
 (a) whom (b) where
 (c) who (d) which

Direction (Q. No. 80 and 81) : Choose the word which is nearest in meaning (synonym) to the given words.

80. Juvenile
 (a) envious (b) prejudice
 (c) youthful (d) reason

81. Deny
 (a) refuse (b) grant
 (c) admit (d) work

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Direction (Q. No. 82 and 83) : Choose the opposite word (antonym) to the given words.

82. Barren

(a) Doubt	(b) Deny
(c) Dim	(d) Fertile

83. Awake

(a) Dissent	(b) Reject
(c) Repel	(d) Asleep

Direction (Q. No. 84 and 85) : Choose the correctly spelt word from the given alternatives.

84. (a) Concession

(b) Conccesion

(c) Consession

(d) Conseceion

85. (a) Dinamic

(b) Dynamic

(c) Dinamyc

(d) Dynamik

86. Choose the correct meaning of the following idiom.

A slip of tongue

- (a) A mistake in speaking
- (b) A mistake in thinking
- (c) A mistake in dreaming
- (d) A mistake in writing

**CEM – 1/25****Direction (Q. No. 87 and 88) :** Choose one word substitutes for the following.

87. Study of birds

- (a) Pathology
- (b) Philology
- (c) Psephology
- (d) Ornithology

88. Study of the influence of planets and stars on human events

- (a) Ecology
- (b) Theology
- (c) Astrology
- (d) Anthropology

Direction (Q. No. 89 and 90) : Choose the right answer to fill in the blanks.

89. If she cooked jamoon well, _____

- (a) Everybody will eat it.
- (b) Everybody would eat it.
- (c) Everybody eats it.
- (d) Everybody would have eaten it.

90. If you had driven carefully, _____

- (a) You wouldn't meet with an accident.
- (b) You wouldn't have met with an accident.
- (c) You won't meet with an accident.
- (d) You didn't meet with an accident.

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Direction (Q. No. 91 and 92) : Choose the suitable active or passive verb forms from the given alternatives.

91. The crew paved the entire stretch of highway.

- (a) The entire stretch of highway were paving by crew.
- (b) The entire stretch of highway was paved by the crew.
- (c) The entire stretch of highway are paving by the crew.
- (d) None of the above

92. His grandmother looked after him.

- (a) His grandmother was looking after by him.
- (b) He would have been looked after by his grandmother.
- (c) He was look after through his grandmother.
- (d) He was looked after by his grandmother.

Direction (Q. No. 93 and 94) : Choose the correct indirect forms of the given sentences.

93. He said to me, “what are you doing ?”

- (a) He asked me what I was doing.
- (b) He asked me what he was doing.
- (c) He said to me that what he is doing.
- (d) He said to me what I am doing.

94. The boy said, “I like sweets.”

- (a) The boy said that I liked sweets.
- (b) The boy said that I like sweets.
- (c) The boy said that he likes sweets.
- (d) The boy said that he liked sweets.



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Direction (Q. No. 95 and 96) : Choose the right option to form a meaningful sentence.

95. moon/on/live/the/can/nothing

- (a) Nothing can live on the moon
- (b) On the moon nothing can live
- (c) Nothing on the moon can live
- (d) Moon on the nothing can live

96. I/on/bridge/stood/the/midnight/at

- (a) At midnight I stood on the bridge
- (b) At midnight on the bridge I stood
- (c) I stood on the bridge at midnight
- (d) I stood at midnight on the bridge

97. Rearrange the following sentences in proper sequence.

1. The Chief Guest addressed us.
2. He was heartily welcomed by the students.
3. The Teacher's Day was celebrated in our school.
4. Finally, the National Anthem was sung in chorus.
5. We had invited our school Chairman as Chief Guest.

- (a) 35214
- (b) 34215
- (c) 34521
- (d) 23541

Direction (Q. No. 98 to 100) : Read the following passage and answer the questions by choosing the right option.

The ancient city of Petra, nestled in the heart of Jordan's rugged landscape, stands as a testament to human ingenuity and architectural brilliance. Carved into sandstone cliffs by the Nabataeans, a skilled civilization that thrived

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centuries before the rise of Rome, Petra showcases a unique blend of natural beauty and human artistry. The city's iconic Treasury, a magnificent facade carved into a cliff face, is a prime example of Nabataean architectural prowess, while the intricate network of tunnels and pathways allows visitors to explore the city's hidden wonders. Petra's survival, despite the harsh desert environment, is a testament to the Nabataeans' mastery of water management, with ingenious systems designed to collect and store rainwater. Today, Petra is a UNESCO World Heritage site, attracting millions of tourists each year, eager to witness the awe-inspiring legacy of this ancient civilization.

98. Where is Petra located ?

- (a) In the heart of Italy
- (b) In the heart of Jordan
- (c) In the heart of Egypt
- (d) In the heart of Greece

99. What civilization carved Petra into the sandstone cliffs ?

- (a) The Romans
- (b) The Egyptians
- (c) The Nabataeans
- (d) The Greeks

100. What was the Nabataeans' mastery of ?

- (a) Warfare
- (b) Water management
- (c) Astronomy
- (d) Agriculture

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