Question Booklet Sl. No.

Series

A

A

CODE : IEM – 8/24
Write here Roll Number and Answer Sheet No.

Roll No.

Answer Sheet No.

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

Declaration by Candidate :
I undertake not to employ any unfair means in this exam. I have checked the Question Booklet Number and the Answer Sheet Number and both are identical and have been correctly entered by me wherever indicated.

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.

Wrong Method	Wrong Method	Wrong Method	Correct Method
○ ⊗ ○ ○	○ ⊘ ○ ○	○ ⊙ ○ ○	○ ● ○ ○

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

SPACE FOR ROUGH WORK

SECTION – A
(General Awareness)

1. In which year was Arunachal Pradesh accorded full Statehood with complete administrative and legislative structures ?
   - (a) 1985
   - (b) 1987
   - (c) 1972
   - (d) 1991

2. In NITI Aayog, what is NITI stands for ?
   - (a) National Institution for Transforming India
   - (b) National Initiative for Transforming India
   - (c) National Institution for Transition in India
   - (d) None of the above

3. What is the name of the programme aimed at developing the world's largest preschool network at Anganwadi Centres ?
   - (a) Anganwadi Shiksha
   - (b) Poshan bhi Padhai bhi
   - (c) Shiksha aur Poshan
   - (d) None of the above

4. Which hydroelectric plant of Arunachal Pradesh is located near the base of Nuranang Falls ?
   - (a) Emini hydel plant
   - (b) Pare hydel plant
   - (c) Borholla hydel plant
   - (d) Jang hydel plant

5. The Sunga Dynasty was established by
   - (a) Vikramaditya
   - (b) Bhagabhadra
   - (c) Rudrasena
   - (d) Pushyamitra

6. Which country was declared host of the 2027 'FIFA Women's World Cup' at FIFA Congress ?
   (a) Germany
   (b) Australia
   (c) Brazil
   (d) South Africa

7. Under which Article of the Indian Constitution can a National Emergency be declared due to war, external aggression or armed rebellion within the country ?
   (a) Article 370
   (b) Article 356
   (c) Article 360
   (d) Article 352

8. Which Indian State hosted the 54ᵗʰ International Film Festival of India ?
   (a) Goa
   (b) Mumbai
   (c) Hyderabad
   (d) Bengaluru

9. The Ita Fort at Arunachal Pradesh was built by
   (a) Chutiya Kings
   (b) Koch Kings
   (c) Ahom Kings
   (d) Kachari Kings

10. Which film won the Best Film – Drama award at the 81ˢᵗ Golden Globe Awards ?
    (a) Barbie
    (b) Killers of the Flower Moon
    (c) Oppenheimer
    (d) None of the above

11. Which State's First Railway Station was inaugurated in 2024 ?
    (a) Assam
    (b) Sikkim
    (c) Manipur
    (d) Nagaland

12. Mandeep Jangra belongs to which sports ?
    (a) Swimming
    (b) Running
    (c) Boxing
    (d) Cricket

13. Which of the following company introduced an enhanced version of GPT – 4 ?

(a) OpenAI

(b) Google

(c) Microsoft

(d) IBM

14. Which is the First State passed the Landmark Uniform Civil Code Bill in India ?

(a) Bihar

(b) Kerala

(c) Uttar Pradesh

(d) Uttarakhand

15. How many medals did India won at the 2024 Paris Olympics ?

(a) 4
(b) 5
(c) 6
(d) 7

16. What is the maximum strength of the Rajya Sabha in India ?

(a) 300

(b) 275

(c) 250

(d) 350

17. Who has won the women's singles title of the 2024 Italian Open tennis tournament ?

(a) Aryna Sabalenka

(b) Iga Swiatek

(c) Elena Rybakina

(d) Coco Gauff

18. The IBM – 360 is an example of which generation of computers ?

(a) First Generation

(b) Second Generation

(c) Third Generation

(d) Fourth Generation

19. North America was discovered by

(a) Columbus

(b) Leif Erikson

(c) Amerigo Vespucci

(d) Ferdinand Magellan

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20. Which organization recently launched the India's first Electric Vehicle (EV) index ?

(a) Bombay Stock Exchange (BSE)

(b) National Stock Exchange (NSE)

(c) Securities and Exchange Board of India (SEBI)

(d) Madras Stock Exchange (MSE)

21. Which two countries had been banned from participating in the Paris Olympics 2024 ?

(a) Russia and Belarus

(b) Romania and Bulgaria

(c) Germany and France

(d) Austria and Cyprus

22. The first Indian communication satellite was

(a) Aryabhata

(b) Bhaskara-I

(c) APPLE

(d) Chandrayaan-I

23. 'Silver Revolution' is related to

(a) Rice

(b) Cotton

(c) Fish

(d) Egg

24. What is the 'Pinaka-MK3', recently seen in news ?

(a) A new fighter jet

(b) A multi-barrel rocket launcher

(c) A missile defense system

(d) A naval destroyer

25. This Multipurpose Project, located in Arunachal Pradesh, is the tallest proposed dam in India. On which river is this project being constructed ?

(a) Subansiri River

(b) Siang River

(c) Dibang River

(d) Lohit River

SECTION – B
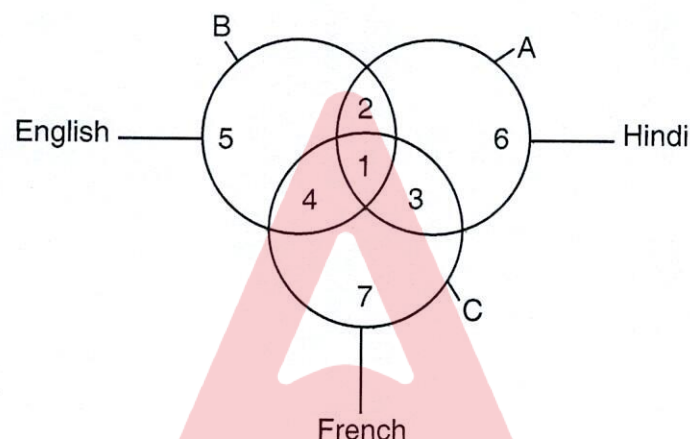### (General Intelligence and Reasoning Ability)

26. In a certain code language, '467' means 'leaves are green', '485' means 'green is gold' and '639' means 'they are playing'. Which digit stands for 'leaves' in the code ?

(a) 4   (b) 6   (c) 7   (d) 3

27. Among Nitin, Amit, Rekha, Sudesh and Sujata, if Nitin came after Amit but not after Sujata and Rekha came after Sujata but not after Sudesh, then who came last for the performance ?

(a) Amit   (b) Nitin

(c) Rekha   (d) Sudesh

28. If Q is exactly to the east of M and M is exactly to the south of R, then towards which direction is Q from R ?

(a) North-east

(b) North-west

(c) South-east

(d) South-west

29. An army contingent of 616 members are to march behind an army band of 32 members in a parade. The two groups are to march in the same number of columns. What is the maximum number of columns in which they can march ?

(a) 16   (b) 32

(c) 24   (d) 8

30. A is richer than B, C is richer than A, D is richer than C and E is richest of all. If they are made to sit in the above degree of richness, who will be in the middle ?

(a) A   (b) B

(c) C   (d) D

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31. A man steadily goes 8 m due east and 6 m due north. What is the distance between initial and final point ?

(a) 9 m

(b) 48 m

(c) 2 m

(d) 10 m

Direction (Q.No. 32 to 34) : In the following diagram, circle A represents persons knowing Hindi, B represents persons knowing English and C represents persons knowing French only.

32. Which number represents the persons knowing English and French but not Hindi ?

(a) 4   (b) 1   (c) 3   (d) 7

33. Which number represents the persons knowing Hindi and French but not English ?

(a) 2   (b) 1   (c) 3   (d) 7

34. Which number represents the persons knowing English but not Hindi and French ?

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

35. If the first and third letters in the word NECESSARY were interchanged, also the fourth and the sixth letters and the seventh and the ninth letters, which of the following would be the seventh letter from the left ?

(a) A   (b) Y   (c) R   (d) E

A

36. Complete the following analogy.

    BAYZ : CDXW : : FEUV : ?

    (a) HGST

    (b) GHTS

    (c) EFYU

    (d) BAYZ

Direction (Q.No. 37 to 39) : A family consists of 6 members P, Q, R, X, Y and Z. Q is the son of R but R is not mother of Q. P and R are a married couple. Y is brother of R. X is the daughter of P. Z is the brother of P.

37. Who is the brother-in-law of R ?

    (a) P   (b) X   (c) Y   (d) Z

38. How many female members are there in the family ?

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

39. How Q is related to X ?

    (a) Husband

    (b) Father

    (c) Brother

    (d) Uncle

40. If 25th of August in a year is Thursday, then number of Mondays in that month is

    (a) 3

    (b) 4

    (c) 5

    (d) 6

41. Select the word least like the other words.

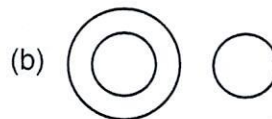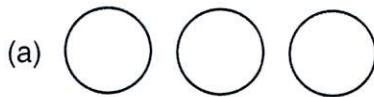   (a) Carrot

    (b) Potato

    (c) Beetroot

    (d) Cucumber

42. Choose the word out of the given alternatives which cannot be formed from the letters of the word 'CONSULTATION'.
   (a) CONSTANT
   (b) NATION
   (c) SALUTE
   (d) STATION

43. Choose the odd man out.
   (a) 9611
   (b) 7324
   (c) 2690
   (d) 1754

44. If A + B means A is mother of B, A ÷ B means A is brother of B, A × B means A is the son of B and A − B means A is daughter of B, which of the following means C is the niece of D ?
   (a) D × P − C
   (b) P + D ÷ C
   (c) C − P ÷ D
   (d) D − P ÷ C

45. In the below arrangement which is the 7th digit to the right of 25th from right end ?

   7, 2, 6, 3, 7, 5, 6, 4, 2, 9, 6, 1, 3, 4, 1, 6, 3, 9, 1, 5, 6, 9, 2, 3, 1, 6, 5, 4, 3, 2, 1, 9, 6, 7, 1, 6, 3

   (a) 5
   (b) 1
   (c) 6
   (d) None of these

46. Choose the correct alternative to fill the blanks given in following letter series.

   m_ommn_m_nommn_m
   (a) onmo
   (b) nnmo
   (c) monm
   (d) nomo

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47. In a certain code, CHILDREN is written as BGHKESFO. How is GEOMETRY written in that code ?

   (a) FDNMFUSX

   (b) FDNLFUSZ

   (c) HDNMFUTY

   (d) HDMNFUTZ

48. Aruna ranks twelfth in a class of 46. What will be her rank from last ?

   (a) 33   (b) 34

   (c) 35   (d) 37

49. Number of letters skipped in between adjacent letters in the series is in the order of 1^2, 2^2, 3^2.

   Which of the following observe above rule ?

   (a) CEJT   (b) EGLO

   (c) EGLP   (d) RTWZ

50. Choose the correct Venn diagram from the alternatives which represents relationship between Clothes, Garment and Shirt.
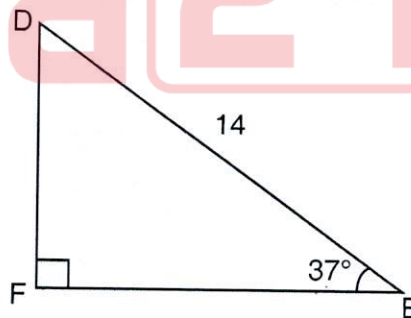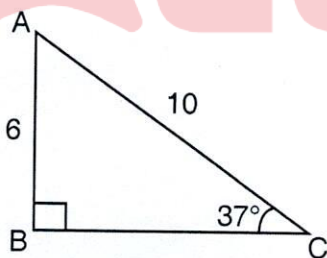
   (a)

   (b)

   (c)

   (d) None of these

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SECTION – C
(Arithmetical and Numerical Ability)
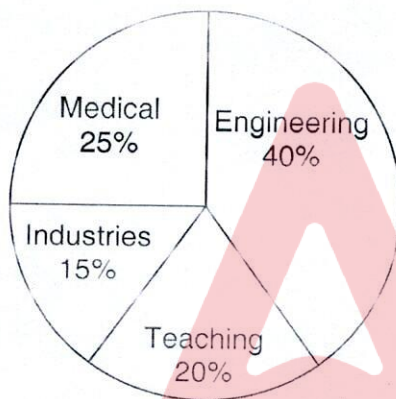
51. $\left(\dfrac{2}{5}\right)^{th}$ of A's salary is equal to B's salary and $\left(\dfrac{7}{9}\right)^{th}$ of B's salary is equal to C's salary. If the sum of the salaries of all three is Rs. 77,000, then B's salary is

   (a) Rs. 45,000   (b) Rs. 18,000   (c) Rs. 15,000   (d) Rs. 28,000

52. A sum was put at simple interest at a certain rate of interest for 2 years. Had it been put at 3% higher rate, it would have fetched Rs. 300 more. Find the sum.
   (a) Rs. 6,000   (b) Rs. 8,230
   (c) Rs. 5,000   (d) Rs. 4,600

53. If $\left(x + \dfrac{1}{x} \right)^2 = 100$, then $x^2 + \dfrac{1}{x^2} =$

   (a) 98   (b) 10   (c) 99   (d) 100

54. A room is 4 m long and 3 m 50 cm wide. How many square meters of carpet is needed to cover the floor of the room ?

   (a) 14 m^2 (b) 16 m^2 (c) 7 m^2 (d) 10 m^2

55. If the ratio of measures of two acute angles in a right angled triangle is 3 : 7, then the smallest angle is

   (a) 9°   (b) 18°   (c) 36°   (d) 27°

56. If two triangles ABC and DEF are as shown in the figures given below, then DF = ?

   (a) 8.4   (b) 8
   (c) 4.2   (d) 9

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Direction (Q. No. 58 to 60) : Percentage distribution of employees in 4 different professions is as shown in Pie Chart. If total number of employees is 1200, answer the following questions using Pie Chart.

58. The number of employees in engineering is

(a) 48   (b) 480   (c) 450   (d) None of these

59. The difference between the number of employees in teaching and medical profession is

(a) 60   (b) 54   (c) 160   (d) 50

60. The ratio between the number of employees in industries to the sum of employees in the teaching and medical profession is

(a) 1 : 3   (b) 1 : 2.5   (c) 3 : 2   (d) 1 : 4

61. In a class of 40 students, 30% of the students are girls and rest are boys. The ratio of boys to girls is

(a) 7 : 3   (b) 4 : 5

(c) 1 : 2   (d) 3 : 7

62. If A, B are walking in the same direction with the speed of 3 km/hr and 2 km/hr respectively, then the distance between them after 2 hours is
    (a) 10 km   (b) 3 km   (c) 5 km   (d) 2 km

63. The sum received by investing Rs. 9,000 at 10% p.a. compound interest for 2 years is
    (a) Rs. 10,800
    (b) Rs. 9,900
    (c) Rs. 11,000
    (d) Rs. 10,890

64. Ms. P can type 600 words in 15 mins. If Mr. D can type twice as fast as P, how many words he can type in 40 minutes ?
    (a) 3200
    (b) 3020
    (c) 1600
    (d) 2003

65. If $\dfrac{x+3}{19} = \dfrac{x+5}{20}$, then x =
    (a) 35
    (b) 25
    (c) 45
    (d) 40

66. If A and B together earn Rs. 900 in an hour and A's share is half that of B's share, then B's share is
    (a) Rs. 500
    (b) Rs. 750
    (c) Rs. 600
    (d) Rs. 300

67. Ms. Geeta sold a calculator at a profit of 5% instead of a loss of 5% and got Rs. 11 more. The cost price of the calculator is
    (a) Rs. 100
    (b) Rs. 110
    (c) Rs. 220
    (d) Rs. 200

68. Two numbers are respectively 20% and 50% more than a third number. The ratio of two numbers is
    (a) 2 : 5
    (b) 3 : 5
    (c) 6 : 7
    (d) 4 : 5

69. The present ages of Guru and Sonu are in the ratio 6 : 7 respectively. After 6 years their ages will be in the ratio 15 : 17 respectively. The present age of Guru is

   (a) 28 years (b) 30 years (c) 25 years (d) 24 years

70. A house costs Rs. P. It was sold for a profit of 30%. What is the capital gains tax if it is 50% of the profit ?

   (a) $\dfrac{3P}{40}$ (b) $\dfrac{3P}{20}$ (c) $\dfrac{3P}{5}$ (d) None of these

71. In a jar, if $\dfrac{1}{2}$ of the marbles are red, $\dfrac{1}{4}$ are white and $\dfrac{1}{5}$ are blue, then the fraction of marbles which are neither red, white nor blue is

   (a) $\dfrac{1}{20}$ (b) $\dfrac{1}{10}$ (c) $\dfrac{2}{19}$ (d) None of these

72. Find the missing number in the following sequence :

   3, 7, 13, ___, 31

   (a) 20

   (c) 19

   (b) 21

   (d) None of these

73. If 60% of 20% $\dfrac{3}{5}^{th}$ of x = 450, then x =

   (a) 6250 (b) 6520 (c) 6025 (d) 6502

74. If Mr. Abhay can walk 8 kms in one hour and Mr. Bharat can cover 10 kms in 2 hours, then ratio of their speeds is

   (a) 4 : 5 (b) 5 : 4 (c) 5 : 3 (d) 8 : 5

75. The value of $\dfrac{1+\dfrac{1}{6}}{2-\dfrac{3}{4}} =$

   (a) $\dfrac{15}{14}$

   (c) $\dfrac{7}{8}$

   (b) $\dfrac{14}{15}$

   (d) $\dfrac{7}{5}$

A

SECTION – D
(Test of English Language and Comprehension)

Direction (Q.No. 76 to 80) : Read the following passage and answer the questions by choosing the appropriate alternatives given below them.

All over the world the wild fauna has been whittled down steadily and remorselessly, and many lovely and interesting animals have been so reduced in numbers that, without protection and help, they can never re-establish themselves. If they cannot find sanctuary where they can live and breed undisturbed, their numbers will dwindle until they join the dodo, the quagga, and the great auk on the long list of extinct creatures.

Of course, in the last decade or so, much has been done for the protection of wildlife: sanctuaries and reserves have been started, and the reintroduction of species into areas where it had become extinct is taking place. In Canada, for instance, beavers are now reintroduced into certain areas by means of aeroplane.

But although much is being done, there is still a very great deal to do. Unfortunately, the majority of useful work in animal preservation has been done mainly for animals which are of some economic importance to man and there are many obscure species of no economic importance which, although they are protected on paper, are in actual fact being allowed to die out because nobody, except a few interested zoologists, considers them important enough to spend money on.

As mankind increases year by year, and as he spreads farther over the globe burning and destroying, it is some small comfort to know that there are certain private individuals and some institutions who consider that the work of trying to save and give sanctuary to these harried animals is of some importance. It is important for many reasons, but perhaps the best of them is this: man for all his genius, cannot create a species, nor can he recreate one he has destroyed. So until we consider animal life to be worthy of

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the consideration and reverence we bestow upon old books and pictures and historic monuments, there will always be the animal refugee living a precarious life on the edge of extermination, dependent for existence on the charity of a few human beings.

76. What attitude towards wildlife does the author think most appropriate ?

    (a) Reverence
    (b) Pity
    (c) Sympathy
    (d) Fear

77. Which of the following animal species has been saved from extinction ?

    (a) Dodo
    (b) Quagga
    (c) Auk
    (d) Beaver

78. Which of the following would prove most effective in preserving wildlife ?

    (a) Sanctuaries
    (b) Laws against destruction of wildlife
    (c) More zoos
    (d) Allocation of more funds

79. Which of the following types of animals does man chiefly protect ?

    (a) Feeble animals
    (b) Economically useful
    (c) Harmless animals
    (d) Those without any shelter

80. Animal species should be preserved mainly because

    (a) They are lovely creatures
    (b) They are killed by cruel people
    (c) They are useful to mankind
    (d) Man cannot recreate a species of animal if it be destroyed

Direction (Q.No. 81 and 82) : Choose the appropriate tense form of the verb for the following sentences from the alternatives given below them.

81. The peon _____ the bell before I reached school.

    (a) ring

    (b) rang

    (c) has rung

    (d) had rung

82. If you _____ your superiors, you will not come to grief.

    (a) will obey

    (b) obey

    (c) would obey

    (d) had obeyed

Direction (Q.No. 83 and 84) : Choose the appropriate simple sentences for the following complex sentences from the alternatives given below them.

83. Vivek is weak from the illness he had recently.

    (a) Vivek is weak from his recent illness.

    (b) Vivek has been weak due to illness.

    (c) Vivek is weak from the illness he had recently.

    (d) Vivek have been weak due to illness.

84. I am surprised that you should believe in such nonsense.

    (a) I am surprised that you should believe in such nonsense.

    (b) I am surprised at your belief in such nonsense.

    (c) I am surprised that you believed in such nonsense.

    (d) Your belief in such nonsense made me surprised.

Direction (Q.No. 85 to 89) : Every sentence given below is divided into three sections, marked (a), (b) and (c). Read the sentence carefully and mark the alternative that contains error. If there is no error in the sentence, mark (d) as your answer.

85. Hardly had he stepped out / than / it started raining heavily. / No error
            (a)   (b)   (c)   (d)

86. Work hard / lest / you may not fail. / No error
      (a)   (b)   (c)   (d)

87. I will stand by you / in / thick and thin. / No error
        (a)   (b)   (c)   (d)

88. The manager brought forward / his many arguments /
            (a)   (b)

    in support of his scheme. / No error
        (c)   (d)

89. Anil came upon / a very interesting advertisement / in the newspaper. / No error
        (a)   (b)   (c)   (d)

Direction (Q.No. 90 and 91) : Choose the correctly spelt words from the following alternatives.

90. (a) Introgative   (b) Intarogative
    (c) Interrogative   (d) Interogetive

91. (a) Commissioner   (b) Comissioner
    (c) Comisioner   (d) Commitioner

Direction (Q.No. 92 to 94) : Choose the appropriate active/passive forms of the following sentences from the alternatives given below them.

92. We voted him to power.
    (a) We had voted him to power.   (b) He is voted by us.
    (c) He was voted to power by us.   (d) He has been voted by us to power.

93. Who taught Anitha such things ?

   (a) Who was Anitha taught such things by ?

   (b) Anitha was taught such things by who ?

   (c) By whom Anitha was taught such things ?

   (d) By whom was Anitha taught such things ?

94. Anish will have finished this work by tomorrow.

   (a) This work will have been finished tomorrow.

   (b) This work will be finished by tomorrow.

   (c) This work will finished tomorrow.

   (d) This work will have been finished by tomorrow.

Direction (Q.No. 95 and 96) : Choose the correct synonyms for the given words from the alternatives given below them.

95. Babble

   (a) Sound

   (b) Prattle

   (c) Chaos

   (d) Mischief

96. Meagre

   (a) Hurt

   (b) Scanty

   (c) Denote

   (d) Vast

97. Choose the correct antonym for the given word from the alternatives given below it.

   Secretive

   (a) Shallow

   (b) Anxious

   (c) Candid

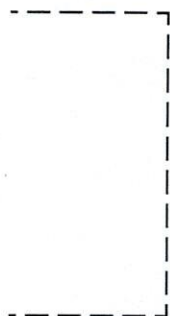   (d) None of these

Direction (Q.No. 98 and 99) : Choose the alternative which best expresses the given sentences in indirect/direct speech.

98. Sanjeev said that he was going to Delhi then.

    (a) Sanjeev said, "I am going to Delhi now."

    (b) Sanjeev said, "I was going to Delhi now."

    (c) Sanjeev said, "I am going to Delhi then."

    (d) Sanjeev said, "He is going to Delhi now."

99. Mala said, "They will contact you as soon as they finish the job."

    (a) Mala said that they would contact me as soon as they would finish the job.

    (b) Mala said that they would contact me as soon as they finish the job.

    (c) Mala said that they would contact me as soon as they will finish the job.

    (d) Mala told to me that they would contact me as soon as they would finish the job.

100. Choose the right meaning of the idiomatic expression from the alternatives given below it.

    Backstairs influence

    (a) One who is easily influenced

    (b) Influential person

    (c) Influence exerted secretly

    (d) None of these

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Answer Key for IEM – 8/24 (Set - A)

Question No.	Ans. Key	Question No.	Ans. Key	Question No.	Ans. Key	Question No.	Ans. Key
1	b	26	c	51	b	76	a
2	a	27	d	52	c	77	d
3	b	28	c	53	a	78	a
4	d	29	d	54	a	79	b
5	d	30	c	55	d	80	d
6	c	31	d	56	a	81	d
7	d	32	a	57	d	82	b
8	a	33	c	58	b	83	a
9	a	34	c	59	a	84	b
10	c	35	b	60	a	85	b
11	b	36	b	61	a	86	c
12	c	37	d	62	d	87	b
13	a	38	d	63	d	88	b
14	d	39	c	64	a	89	a
15	c	40	c	65	a	90	c
16	c	41	d	66	c	91	a
17	b	42	c	67	b	92	c
18	c	43	b	68	d	93	d
19	a	44	c	69	d	94	d
20	b	45	a	70	b	95	b
21	a	46	d	71	a	96	b
22	c	47	b	72	b	97	c
23	d	48	c	73	a	98	a
24	b	49	a	74	d	99	b
25	c	50	c	75	b	100	c