

REASONING ABILITY

Alpha numerical sequencing puzzle

Directions—(Q1-4) Study the following arrangement carefully and answer the Questions given below—

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

1. Which of the following is the twelfth to the left of the twentieth from the left end of the above arrangement?

- (A) % (B) W (C) \$ (D) J (E) None of these

2. How many such numbers are there in the above arrangement each of which is immediately preceded by a consonant and also immediately followed by a symbol?

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

3. If all the numbers in the above arrangement are dropped, which of the following will be the eleventh from the right end?

- (A) U (B) T (C) F (D) H (E) None of these

4. Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

- (A) 1 @ 4 (B) © T H (C) W P 6 (D) # 7 3 (E) 9 2 I

Directions (5-8): These questions are based on the following letter / number / symbol arrangement. Study it carefully and answer the questions that follow:

5 D G E « 7 9 \$ F 1 6 R % L I A J 3 B # 4 @ K P 8 U M 2

5. Four of the following five are alike in a certain way on the basis of their positions in the above arrangement and so form a group. Which is the one that does not belong to the group?

- (A) \$9F (B) R6% (C) 8PU (D) #B4 (E) 3BJ

6. If all the symbols are removed from the above arrangement which element will be third to the left of thirteenth from the left?

- (A) L (B) R (C) 6 (D) %6R (E) None of these

7. Which element will be fifth to the right of ninth from the right end if all the numbers are removed from the above arrangement?

- (A) K (B) @ (C) P (D) # (E) None of these

8. How many such numbers are there in the above arrangement each of which is immediately followed by a consonant but not immediately preceded by a vowel?

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

Directions (9-12): These questions are based on the following letter / number / symbol arrangement. Study it carefully and answer the questions that follow:

R D A K 5 V I 2 M J E N 9 7 U Z V 1 W 3 H 4 F Y 8 P 6 T G

9. How many such numbers are there in the above arrangement each of which is immediately preceded by a consonant but not immediately followed by a vowel?

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

- 10** Which element will be eighth to the left of seventeenth from the left end?
 (A) M (B) J (C) 8 (D) 5 (E) None of these
- 11.** Which element will be sixth to the right of nineteenth from the right end?
 (A) 5 (B) Z (C) V (D) 1 (E) None of these
- 12.** Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?
 (A) E9J (B) Z1U (C) HF3 (D) Y48 (E) B2K
- Directions (13-16):** These questions are based on the following letter / number/ symbol arrangement. Study it carefully and answer the questions that follow:
 W 1 R % 4 J E # 7 M T U I 9 B H 3 A \$ 9 F Q 5 D G 6 U S P
- 13.** Which element will be seventh to the right of eighteenth from the right end?
 (A) A (B) E (C) \$ (D) # (E) None of these
- 14** If the order of the last 15 elements is reversed which of the following will be fifth to the right of twelfth from the left end?
 (A) U (B) \$ (C) 3 (D) 6 (E) None of these
- 15.** Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?
 (A) RW4 (B) 5FG (C) 9QA (D) 3B\$ (E) 7ET
- 16.** If the positions of E and A are interchanged and similarly the positions of R and U are interchanged then how many symbols will be there each of which is either preceded or followed by a vowel?
 (A) None (B) One (C) Two (D) Three (E) More than three
- Directions (17-20):** These questions are based on the following letter / number/ symbol arrangement. Study it carefully and answer the questions that follow
 ! 9 B Q = \$ 2 5 R J # L 3 @ Y M E 6 8 * + D F 4 % H 7 &
- 17.** How many such numbers are there in the above arrangement each of which is immediately preceded by a symbol but not immediately followed by a letter?
 (A) None (B) One (C) Two (D) Three (E) More than three
- 18.** Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?
 (A) =5\$ (B) # @ L (C) % 7 H (D) 8 D * (E) ! Q 9
- 19.** If all the symbols are dropped from the above arrangement which of the following will be the sixth from the right end?
 (A) R (B) 8 (C) 5 (D) 6 (E) None of these
- 20.** How many such numbers are there in the above arrangement each of which is immediately followed by a number but not immediately preceded by a symbol?
 (A) One (B) Two (C) Three (D) Four (E) None

KEY:

- | | | | | | |
|--------|--------|--------|--------|--------|--------|
| 1.(A) | 2.(C) | 3.(E) | 4.(E) | 5.(E) | 6.(B) |
| 7.(A) | 8.(C) | 9.(E) | 10.(A) | 11.(C) | 12.(D) |
| 13.(C) | 14.(A) | 15.(C) | 16.(D) | 17.(B) | 18.(C) |
| 19.(B) | 20.(A) | | | | |

Alphabetical quibble

21. If it is possible to make only one meaningful word with the Third, Seventh, Eighth and Tenth letters of the word COMPATIBILITY, which of the following would be the last letter of that word? If no such word can be made, give 'X' as your answer and if more than one such word can be formed, give your answer as 'Y'.

- (A) I (B) B (C) L (D) X (E) Y

22. If it is possible to make only one meaningful word with the second, the fifth, the sixth and the tenth letters of the word STREAMLINE, which of the following would be the third letter of that word? If no such word can be made, give 'X' as your answer and if more than one such word can be formed, give your answer as 'Y'.

- (A) E (B) A (C) M (D) X (E) Y

23. How many meaningful words can be formed using the first, the third, the fifth, and the sixth letters of the word TRADEMARK using each letter only once in each word?

- (A) One (B) Two (C) Three (D) Four (E) More than four

24. How many meaningful words can be formed using the first, the sixth, the seventh and the ninth letters of the word PROMENADE using each letter only once in each word?

- (A) One (B) Two (C) Three (D) Four (E) None

25. How many meaningful words can be formed using the first, the third, the seventh and the ninth letters of the word SEPARATION using each letter only once in each word?

- (A) One (B) Two (C) Three (D) Four (E) More than four

KEY : 21.(E) 22.(E) 23.(C) 24.(A) 25.(E)

Classification

26. Bird:Wing:: Fish: ?

- (A) Gill (B) Fin (C) Tail (D) Scale (E) None of these

27. Book:Publisher :: Film: ?

- (A) Producer (B) Director (C) Writer (D) Editor (E) None of these

28. Chick:Hen :: Cub: ?

- A) Duck B) Lion C) Deer D) Bear E) Cat

Odd one out

29. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group?

- (A) Stem (B) Tree (C) Root (D) Branch (E) Leaf

30. Four of the following five are alike in a certain way and so form a group. Which is the one that does not belong to that group ?

- (A) 625 (B) 121 (C) 196 (D) 586 (E) 324

31. Hinduism , Christianity , Islam : Religion, which one is similar to this?

- (a) Ear , Nose , Eyesight: Vision (b) Plus , Minus , Multiple : division
(c) Winter , Spring , Summer : Season (d) Humid , Hot, Tundra : Region

Direction Sense Questions

32. Varsha walks 14m towards west, then turns to her right and walks 14m and then turns to her left and walks 10m. Again turning to her left she walks 14m. What is the shortest distance between her starting point and the present position?

- (A) 10 (B) 24 (C) 28 (D) 38 (E) 32

33. A man walks 1km towards east and then he turns to south and walks for 5km. Again

he turns to east and walks 2km, after this he turns to north and walks 9 km. Now how far is he from his starting point?

- (A) 3km (B)4km (C) 5km (D) 1km (E)2km

34.A man walks 2km to west of his home and then turned south covering 4km.Finally he moved 3km towards east and then again 1km west. How far is he from the starting point?

- (A) 2km (B)4km (C) 9km (D) 10km (E) None of these

35.Soumya leaves for her office from her house. She walks towards east. After moving a distance of 20m, she turns south and walks 10m. Then she walks 35m towards the west and further 5m towards the north. She then turns towards east and walks 15m. What is the straight distance between her initial and final positions?

- (A)0 (B)5 (C) 10 (D) can not be determined (E) none of these

36.Divya walks 20m towards north. She then turns left and walks 40m. She again turns left and walks 20m. Further she moves 20m after turning to the right. How far is she from her original position?

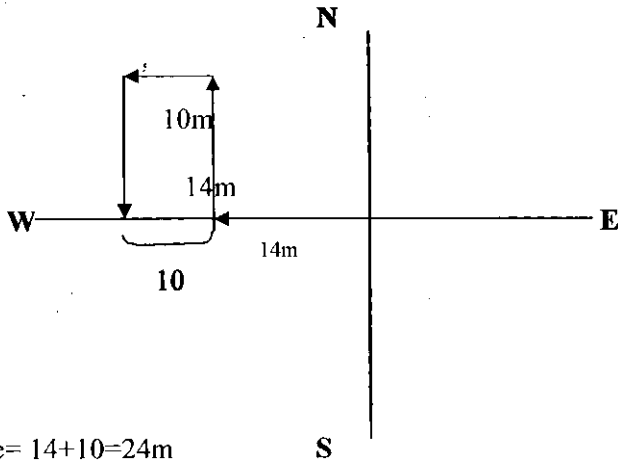
- (A) 20 (B)30 (C) 50 (D) 60 (E) None of these

ANSWER

26.(B)Fin 27. (A)Producer 28. B)Lion 29. (B) Tree

30. (D) 586 31. (C) Winter , Spring , Summer : Season

32.



Total distance= 14+10=24m

33. Total distance traveled is $\sqrt{(4*4)+(3*3)} = 5\text{km}$

34. B) 4km

35. B) 5m

36.D) 60m

33. Total distance traveled is $\sqrt{(4*4)+(3*3)} = 5\text{km}$

34. B) 4km

35. B) 5m

36.D) 60m

Blood Relation

37.Pointing towards a person, a man said to a woman," his mother is the only daughter of your father". How is the woman related to that person?

- (A)Daughter (B)Sister (C)Mother (D)Wife (E)None of these

38. Pointing to a lady in the photograph, Shalu said " Her son's father is the son-in-law of my mother". How is Shalu related to the lady?

- (A)Aunt (B)Sister (C)Mother (D)Cousin (E)None of these

39. Sanil introduces Rohit as the son of the only brother of his father's only wife. How is Rohit related to Sanil?

(A)Cousin (B)Brother (C)Son (D)Uncle (E)None of these

40. Pointing towards a boy Veena said, " He is the son of only son of my grandfather". How is the boy related to Veena?

(A)Cousin (B)Brother (C)Son (D)Uncle (E)None of these

41. Pointing to a lady in the photograph Ram said, " She is the daughter of the woman who is the mother of the husband of my mother". How Ram is related to that lady?

(A)Aunt (B)Sister (C)Mother (D)Cousin (E)None of these

Mathematical Operations

42. If '+' means '-', '*' means '÷', '÷' means '+', and '-' means '*', then which of the following will be the value of the expression $252 * 9 - 5 + 32 \div 92$?

(A)95 (B)168 (C)192 (D)200 (E) None of these

43. If 'M' means '-', 'P' means '÷', 'L' means '+', and 'N' means '*', then which of the following will be the value of the expression $14N - 10L + 42P \div 2M + 8$?

(A)153 (B)216 (C)248 (D)251 (E) None of these

44. If '+' means '*', '-' means '÷', '*' means '-' and '÷' means '+', then which of the following will be the value of the expression $26 + 74 - 4 * 5 \div 2$?

(A)220 (B)376 (C)478 (D)488 (E) None of these

45. If 'P' means '*', 'B' means '÷', 'T' means '-' and 'M' means '+', then which of the following will be the value of the expression $28B \div 7P + 8T \div 6M + 4$?

(A)20 (B)30 (C)32 (D)34 (E) None of these

46. If '+' means '-', '-' means '*', '*' means '÷' and '÷' means '+', then which of the following will be the value of the expression $15 - 3 + 10 * 5 \div 5$?

(A)52 (B)5 (C)22 (D)8 (E) None of these

Alphabet Test

47. If the following five words are arranged in alphabetical order, which word will come in the middle?

(A)Draw (B)Read (C)Play (D)Back (E)Want

48. Which of the following words will come fourth in the English dictionary?

(A)Falls (B)Follow (C)Faithfully (D)Fool (E)Father

49. Which of the following words will come second in the English dictionary?

(A)Magical (B)Magnify (C)Maternal (D)Marshal (E)Magnetic

50. Which of the following words will come last in the telephone directory?

(A)Mahender (B)Mahendra (C)Mahinder (D)Mahindra (E)Mohinder

51. Arrange the following words according to the dictionary arrangement:

1. Epitaxy 2. Episode 3. Epigene 4. Epitome 5. Epilogue

(A)1,2,3,4,5 (B)3,2,5,4,1 (C)3,5,2,1,4 (D)5,4,2,1,3 (E)None of these

ANSWER

37. (C)Mother

38. (B)Sister

39. (A)Cousin

40. (B)Brother

41. (A)Aunt

42. (D)200

43. (A)153

44. (E) None of these

45. (B)30

46. (D)48

47. (C)Play

48. (B)Follow

49. (E)Magnetic

50. (E)Mohinder

51. (C)3,5,2,1,4

Seating Arrangement.

Read the following information carefully and answer the questions given below:

A, B, C, D, E, F, & G are sitting around a circle and are facing the centre. G is second to the left of C, who is to the immediate left of F. A is third to the left of E. B is between D & E.

52. Which of the following is false?

- (A) A is fourth to the right of E (B) G is to the immediate right of D
(C) F is third to the right of D (D) B is to the immediate left of D
(E) None of these.

53. Which of the following is true?

- (A) C is fourth to the left of B (B) A is to the immediate right of G
(C) D is second to the left of E (P) B is second to the right of G
(E) None of these

54. Which of the following pairs has the first person sitting to the immediate left of the second person?

- A) BE B) CA C) GD D) DG E) None of these

55. Which of the following has the middle person sitting between the remaining two?

- A) FCE B) EFB C) DEB D) GDA E) None of these

.Read the following information carefully and answer the questions given below:

A, B, C, D, E & F are seated in a circle facing the center. D is between F and B. A is second to the left of D and second to the right of E.

56. Who is facing A?

- A) B B) D C) F D) Either For B E) None of these

57. Who among the following is facing D?

- A) A B) C C) E D) can't be determined E) None of these

58. Who is sitting between A and E?

- A) C B) D C) B D) F E) None of these

59. Who is third to the left of C?

- A) A B) D C) B D) Either For B E) None of these

.Read the following information carefully and answer the questions given below:

A, B, C, D, E, F, G and H are standing in a row facing north. B is not neighbor of G. F is to the immediate right of G and neighbor of E. G is not at the extreme end. A is sixth to the left of E. H is sixth to the right of C.

60. Who among the following are neighbors?

- A) AB B) CG C) FH D) CA E) None of these

61. Which one among the followings defines the position of D?

- A) 4th to the right of H B) 3rd to the right of A C) Neighbor of B and F D) To the immediate left of B E) None of these

62. Which one of the following is true?

- A) C is to the immediate left of A B) D is the neighbors of B and F
C) G is to the immediate right of D D) A and E are at the extreme ends E) None

63. Who is at the extreme left?

- A) A B) C C) D D) H E) None of these

Read the following information carefully and answer the questions given below:

A, B, C, D, E, F & G are sitting in a circle facing at the centre and playing cards is the

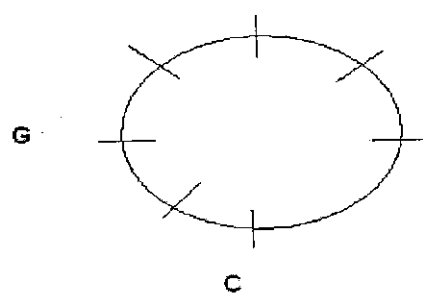
64 Which of the following doesn't have the pair of persons sitting adjacent to each other?

- .Read the following information carefully and answer the questions given below**

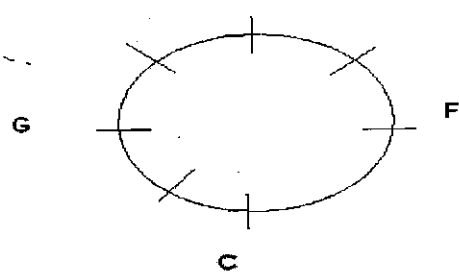
68. Which of the following pairs has the second person sitting immediately to the right of the first?

52. (C) 53. (B) 54. (D) 55. (E)

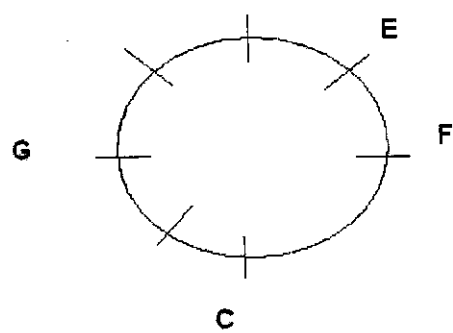
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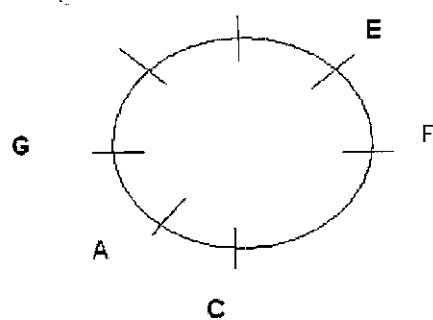
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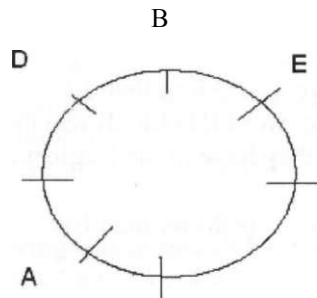
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v.



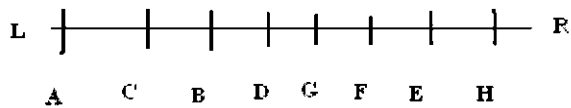
VI.



56.(D) 57.(B) 58.(A) 59.(B)

Ans (60-63): if the people in arrow are facing north then , towards left means towards our left and towards right means towards our right. If the people in the row are facing south then towards left means towards our right and towards right means towards our left

60 .(D) 61.(B) 62.(C) 63.(A)



64 .(A) 65.(C) 66.(C) 67.(B)

68. (B) 69.(B) 70.(E) 71.(E)

ALPHABETICAL PUZZLES

- 72.How many such pairs of letters are there in the word STAINLESS each of which has as many letters between them in the word as they have in the English alphabet, in the same sequence?
(a)Two (b)Three (c)Four (d)Five (e)More than five
- 73.How many such pairs of letters are there in the word COMPENSATION each of which has as many letters between them in the word as they have in the English alphabet, in the same sequence?
(a)Two (b)Three (c)Four (d)Five (e)More than five
- 74.How many such pairs of letters are there in the word DETERMINE each of which has

- as many letters between them in the word as they have in the English alphabet, in the same sequence?
- (a)Two (b)Three (c)Four (d)Five (e)More than five
- 75.How many such pairs of letters are there in the word DISTANCE each of which has as many letters between them in the word as they have in the English alphabet, in the same sequence?
- (a)Two (b)Three (c)Four (d)Five (e)More than five
- 76.How many such pairs of letters are there in the word INTERMISSION each of which has as many letters between them in the word as they have in the English alphabet, in the same sequence?
- (a)Two (b)Three (c)Four (d)Five (e)More than five

CODING AND DECODING

- 77.MYSTIFY is coded as NZTUJGZ.How is NEMESIS coded in that language?
 A) MDLHRDR B)OFNFTJT C)ODNHTDRD)PGOKUGUE)OGOFTJT
- 78.TAP is coded as SZO.How is FREEZE coded in that language?
 A) EQDFYG B)ESDFYF C)GQFDYF D)EQDDYD E)EPDEZD
- 79.SIKKIM is coded as THLJJL.How is TRAINING coded in that language?
 A) SQBHOHOH B)UQBHOHOF QUQBJOHHO D)UQBJOHOH
 E)NONE
- 80.BOMBAY is coded as CPNCBZ.How is MADRAS coded in that language?
 A) NBDSBT B)NBESBT QNBDSET D)NCESBT E)NONE
- 81.SYSTEM is coded as TAVXJR.How is OPTION coded in that language?
 A)PRWMST B)PRWNTT QPRWNTS D)PRWMTT E)PWRSTN

ANSWER

72. (A)Two

73 (D)Five

74. (A)Two

75.(A)Two

76.(B)Three

77.(B)

S T A I N L E S S
19 20 1 9 14 12 5 19 19
N Z T U J G Z

Hint: E J O T Y
5 10 15 20 25

M Y S T I F Y

↓ ↓ ↓ ↓ ↓ ↓ ↓

N Z T U J G Z

N E M E S I S

↓ ↓ ↓ ↓ ↓ ↓ ↓

O F N F T J T

78. D)EQDDYD

79. B)UQBHOHOF

80. B)NBESBT

81. D)PRWMTT

Miscellaneous

- 82.P is heavier than Q but lighter than R. Q is heavier than T. S is heavier than R but lighter than V. Who among them is the lightest?
- (A)V (B)S (C)T (D)R (E)None of these
83. Ifthe digits in the number 86435192 are arranged in ascending order, what will be the difference between the digits which are second from the right and fourth from the left in

the new arrangement ?

(A) One (B)Two (C) Three (D) Four (E)None

84. Each vowel of the word ADJECTIVE is substituted with the next letter of the English alphabetical series, and each consonant is substituted with the letter preceding it. How many vowels are present in the new arrangement ?

(A) None (B) One (C) Two (D) Three (E) None of these

85. If in each number the first and the second digits are interchanged, which will be the third highest number ?

(A) 489 (B)541 (C) 654 (D) 953 (E) 783

Read the following questions(86-89) carefully and answer the questions

1 2 3 4 5 6 7 8 9 2 4 6 8 9 7 5 3 1 9 8 7 6 5 4 3 2 1

86.Third number to the left of the number which is exactly in the middle of the given sequence of numbers.

A) 3 B)4 C)5 D)6 E)7

87.How many 7 s are there preceded by an even number?

A) 3 B)2 C)5 D)6 E)7

88.How many 8 s are there either preceded by 7 or followed by 9?

A) 3 B)2 C)5 D)6 E)7

89.How many pairs of numbers have a difference of 2?

A) 3 B)2 C)4 D)morethan4 E)None of these

Substitution

90.If white is called blue, blue is called red, red is called yellow, yellow is called green, green is called black, black is called violet and violet is called orange. Then what would be the colour of human blood?

A) Red B) Green C) Yellow D)Violet E)None

91.If air is called green, green is called blue, blue is called sky, sky is called yellow, yellow is called water, and water is called pink. Then what is the colour of clear sky?

A) Blue B) Sky C) Yellow D) Water E) Pink

92.If the animals which can walk are called swimmers, animals who crawl are called flying, those living in water are called snakes and those which fly in the sky are called hunters, then what will a lizard be called?

A) Swimmers B) Snakes C) Flying D) Hunters E) None

Mixed Letter Coding

93.In certain code language "dom pul to" means "bring hot food"; "pul tir sop" means "food is good" and "tak da sop" means "good bright boy". Which of the following does mean "hot" in that language?

A)dom B)pul C)ta D)Can't be determined E)None

94. In certain code language "nso ptr kli chn" means "Sharma gets marriage gift"; "ptr inm wop chn" means "wife gives marriage gift" ;"tti wop nhi" means "he gives nothing" What would mean "gives"?

- A)chn B)nhi C)ptr D)wop E)None
- 95.If "tee see pee" means "Drink fruit juice"; "see kee lee" means "Juice is sweet" and "lee ree mee" means "He is intelligent". Which word in that means 'sweet'?
- A)see B)kee C)lee D)pee E)None of these

Mixed Number Coding

- 96.In certain code language , '786' means 'study very hard', '958' means 'hard work pays' and '645' means 'study and work'. Which of the following is the code for 'very'?
- A)8 B)6 C)7 D)5 E)None
97. In certain code language, '134' means 'you are well'; '758' means 'they go home'; and '839' means 'we are home'. Which of the following represents 'they' in that code language?
- A) 5 B)7 C)3 D)8 E)Data inadequate
98. In certain code language, '467' means 'leaves are green'; '485' means 'green is good' and '639' means 'they are playing'. Which digit stands for 'leaves' in that code?
- A)4 B)6 C)7 D)3 E)None

99. Who is the oldest among A, B, C, D & E?

I. A and B are older than E and D.

II. B, who is older than A, D and E, is not the oldest

- A) A B)C C) Data inadequate D)B E) None of these

ANSWER

82. (C) 83. (D) Four 84. (C) Two 85. (D) 953
86. B)4 87. B)2 88. B)2 89. D) More than 4
90. C) Yellow 91. B) Sky 92. C) Flying 93 D)Can't be determined
94. D)wop 95. B)kee 96. C)7 97. E)Data inadequate
98. C)7 99. D)B

Directions—(Q. 100-104) Symbols @, %, •, \$ and # are used with following meanings—

'A @ B' means 'A is smaller than B'.

'A % B' means 'A is greater than B'.

'A • B' means 'A is neither greater than nor smaller than B'.

'A \$ B' means 'A is either smaller than or equal to B.'

'A # B' means 'A is either greater than or equal to B'.

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true and give your answer accordingly. Give answer-

- (A) If only conclusion I is true.
- (B) If only conclusion II is true.
- (C) If either conclusion I or conclusion II is true.

(D) If neither conclusion I nor conclusion II is true. F

(E) If both conclusions I and II are true.

100. Statements : $G @ H$, $H \ll Q$, $Q \$ M$

Conclusions : I. $M \% G$ II. $H \$ M$

101. Statements : $F \bullet B$, $B @ E$, $E \# J$

Conclusions : I. $F @ E$ II. $J \$ B$

102. Statements : $R \$ H$, $H \% M$, $M \# F$

Conclusions : I. $F \$ H$ II. $F @ R$

103. Statements : $T \# L$, $L \% W$, $W @ V$

Conclusions : I. $L \% V$ II. $T \% W$

104. Statements : $K \% L$, $L \# T$, $I \$ T$

Conclusions : I. $L \% I$ II. $L \bullet I$

Directions (105-109): In these questions symbols \odot , $\#$, \ll , $\$$ and $@$ are used with different meanings as follows:

' $A \odot B$ ' means 'A is smaller than B'

' $A \# B$ ' means 'A is either smaller than or equal to B'

' $A \ll B$ ' means 'A is greater than B'

' $A \$ B$ ' means 'A is either greater than or equal to B'

' $A @ B$ ' means 'A is neither smaller than nor greater than B'

In each of the following questions assuming the given statements to be true, find out which of the two conclusions I and II given below them is/ are definitely true

Give answer (A) if only conclusion I is true.

Give answer (B) if only conclusion II is true.

Give answer (C) if either conclusion I or conclusion II is true.

Give answer (D) if neither conclusion I nor conclusion II is true.

Give answer (E) if both conclusions I and II are true.

105. Statements: $V \# S$, $S \odot L$, $L \odot J$

Conclusions: I. $V \odot L$ II. $S \odot J$

106. Statements: $M \# R$, $R \odot J$, $J \# H$

Conclusions: I. $M \# H$ II. $R \odot H$

107. Statements: $H \$ F$, $F @ G$, $G \ll M$

Conclusions: I. $H \ll M$ II. $H \ll G$

108. Statements: $R \odot J$, $J \ll T$, $T \# L$

Conclusions: I. $R @ T$ II. $J @ L$

109. Statements: $W @ T$, $T \$ K$, $K \ll F$

Conclusions: I. $W \$ K$ II. $W @ K$

ANSWER

100. First decode the statement and the conclusion according to the conditions given. The conclusion can be attained by following certain rules which is given below.

i. $< + < = <$

- ii. $> + > = >$
- iii. $< + < = <$
- iv. $< + < = <$
- v. $> + > = >$

No other combinations are possible.

$A @ B$ means $A < B$, $A \% B$ means $A > B$, $A \bullet B$ means $A = B$,

$A \$ B$ means $A \leq B$, $A \# B$ means $A \geq B$

$G @ H$, $H \bullet Q$, $Q \$ M$ means $G < H$, $H = Q$, $Q \leq M$

- Conclusion: I. $M > G$ II. $H \leq M$

solution:

- $G < H$ means $G < Q$ (since $H = Q$)
 $G < Q$, $Q \leq M$, this is the 4th case. So the conclusion is $G < M$ or $M > G$
- $Q \leq M$, here substitute $H = Q$, so the conclusion is $H \leq M$

So here both the conclusions are correct. The answer is E.

101.(A) 102.(D) 103.(B) 104.(C) 105.(E)
 106.(B) 107.(A) 108.(D) 109.(A)

110. In a certain code RIPPLE is written as 613382 & LIFE is written as 8192. How is PILLER written in that code ?

(a) 318826 (b) 318286 (c) 618826 (d) 328816 (e) none of these

111 If GIVE is coded as 5137 and BAT is coded as 924, How is GATE coded?

(a) 5427 (b) 5724 (c) 5247
 (d) 2547 (e) None of these

112 If PALE, is coded as 2134, EARTH is coded as 41590, how is PEARL coded in that code?

(a) 29530 (b) 24153 (c) 25413
 (d) 25430 (e) None of these

113 If in a certain language, ENTRY is coded as 12345 & STEADY is coded as 931785 then state which is the correct code for the SEDATE

(a) 918731 (b) 954185 (c) 814195
 (d) 614781 (e) None of these

114 If in a certain language, ENTRY is coded as 12345 & STEADY is coded as 931785, then state which is the correct code for the ENDEAR

(a) 524519 (b) 174189 (c) 128174
 (d) 124179 (e) 164983

115 How many meaningful words can be formed with the letters AMRE using each letter only once in each word?

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

116. What should come next in the following number series ?

9 8 9 8 7 9 8 7 6 9 8 7 6 5 9 8 7 6 5 4 9 8 7 6 5

(A) 3 (B) 4 (C) 2 (D) 1 (E) None of these

117. Meeta correctly remembers that her father's birthday is after 8th July but before 12th July. Her brother correctly remembers that their father's birthday is after 10th July but before 15th July. On which day of July was definitely their father's birthday ?

(A) 10th (B) 11th (C) 10th or 11th (D) Cannot be determined (E) None of these

118. In a class of 50 students M is eighth from top. H is 20th from bottom. How many

students are there between M and H ?

(A) 22 (B) 23 (C) 24 (D) Cannot be determined (E) None of these

Directions—(Q.1 19 123) Study the sets of numbers given below and answer the questions, which follow :

489-541 - 654-953 - 983

119. If in each number, the first and the last digits are interchanged, which of the following will be the second highest number ?

(A) 489 (B) 541 (C) 654 (D) 953 (E) 783

120. If in each number, all the three digits are arranged in ascending order, which of the following will be the lowest number ?

(A) 489 (B) 541 (C) 654 (D) 953 (E) 783

121. Which of the following numbers will be obtained if the first digit of lowest number is subtracted from the second digit of highest number after adding one to each of the numbers ?

(A) 1 (B) 2 (C) 3 (D) 4 (E) 5

122. If five is subtracted from each of the numbers, which of the following numbers will be the difference between the second digit of second highest number and the second digit of the highest number ?

(A) Zero (B) 3 (C) 1 (D) 4 (E) 2

123. If in each number the first and the second digits are interchanged, which will be the third highest number ?

(A) 489 (B) 541 (C) 654 (D) 953 (E) 783

Directions—(Q. 124 128) Read the following information carefully and answer the questions, which follow :

'A - B' means 'A is father of B', 'A + B' means 'A is daughter of B'

'A ÷ B' means 'A is son of B', 'A x B' means 'A is wife of B'

124. Which of the following means P is grandson of S ?

(A) $P + Q - S$ (B) $P \div Q \times S$ (C) $P \div Q + S$ (D) $P \times Q \div S$ (E) None of these

125. How is P related to T in the expression 'P + S - T' ?

(A) Sister (B) Wife (C) Son (D) Daughter (E) None of these

126. In the expression 'P + Q x T' how is T related to P ?

(A) Mother (B) Father (C) Son (D) Brother (E) None of these

127. Which of the following means T is wife of P ?

(A) $P \times S \div T$ (B) $P \div S \times T$ (C) $P - S \div T$ (D) $P + T \div S$ (E) None of these

128. In the expression 'P x Q - T' how is T related to P ?

(A) Daughter (B) Sister (C) Mother (D) Can't be determined (E) None of these

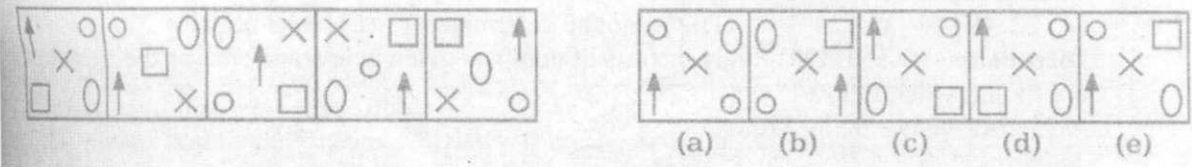
Pick out the appropriate one from the answer figures which fits the

Problem figure

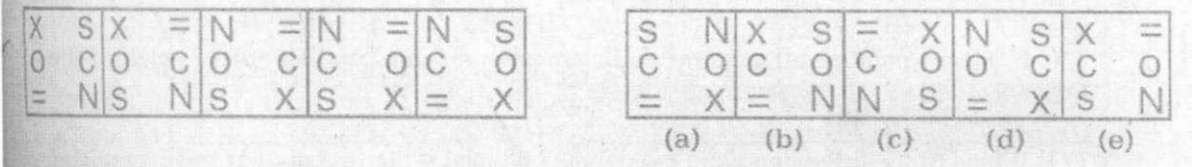
Problem Figures

Answer Figures

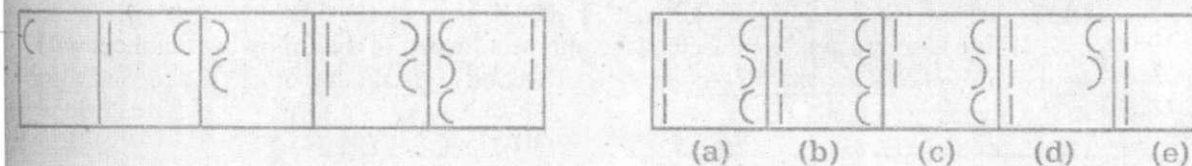
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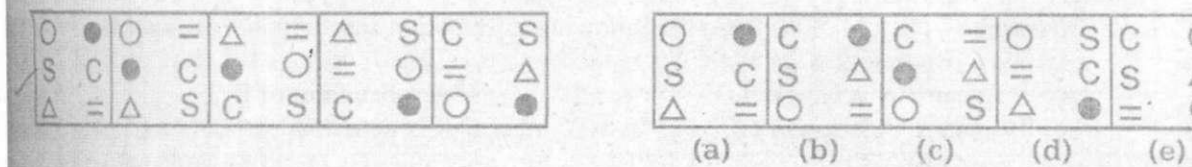
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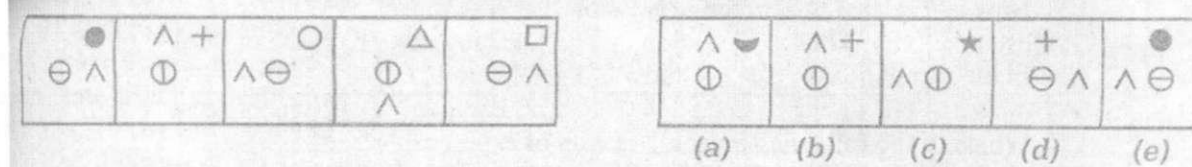
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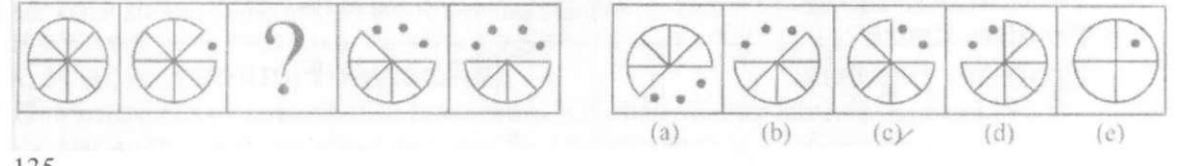
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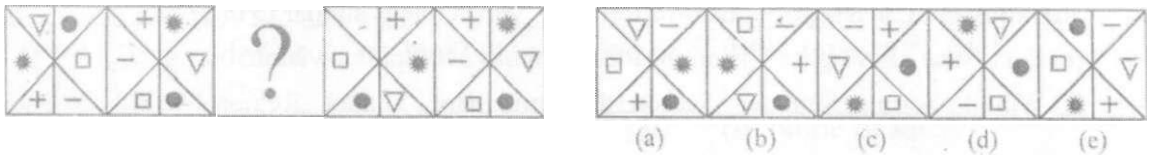
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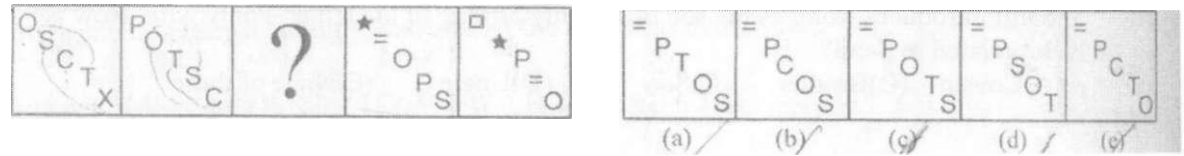
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136



137



ANSWER

- 110.(B) 111.(C) 112.(B) 113.(A) 114.(C) 115.(D)
- 116.(B) 117.(B) 118.(E) 119.(C) 120.(B) 121.(A)
- 122.(B) 123.(D) 124.(C) 125.(A) 126.(B) 127.(E)
- 128.(D) 129.(D) 130.(B) 131.(A) 132.(B) 133.(A)

134.(C)Anticlockwise ,one section is removed and a dot is placed there.

135.(D)All the elements are moved 2 and 5 sections alternately 136.(D) 137. (C)

REASONING ABILITY - SAMPLE TEST

1. How many meaningful words can be formed using the first, the third, the fifth, and the sixth letters of the word TRADEMARK using each letter only once in each word?
 (A)One (B)Two (C)Three (D)Four (E)More than four
- 2.Chick:Hen :: Cub: ?
 A)Duck B)Lion C)Deer D)Bear E)Cat

3. **Hinduism , Christianity , Islam : Religion**, which one is similar to this?

- (a) Ear , Nose , Eyesight: Vision (b) Plus , Minus , Multiple : division
(c) Winter , Spring , Summer : Season (d) Humid , Hot, Tundra : Region

4. A man walks 2km to west of his home and then turned south covering 4km. Finally he moved 3km towards east and then again 1km west. How far is he from the starting point? (A) 2km (B) 4km (C) 9km (D) 10km (E) None of these.

5. Sanil introduces Rohit as the son of the only brother of his father's only wife. How is Rohit related to Sanil?

- (A) Cousin (B) Brother (C) Son (D) Uncle (E) None of these

6. If '+' means '*', '-' means '÷', '*' means '-' and '÷' means '+', then which of the following will be the value of the expression $26 + 74 - 4 * 5 \div 2$?

- (A) 220 (B) 376 (C) 478 (D) 488 (E) None of these

7. Which of the following words will come second in the English dictionary?

- (A) Magical (B) Magnify (C) Maternal (D) Marshal (E) Magnetic

8. How many such pairs of letters are there in the word DETERMINE each of which has as many letters between them in the word as they have in the English alphabet, in the same sequence?

- (a) Two (b) Three (c) Four (d) Five (e) More than five

9. SIKKIM is coded as THLJLL. How is TRAINING coded in that language?

- A) SQBHOOH B) UQBHOHOF C) QUQBJOHHO D) UQBJOHHO E) NONE

10. If in each number the first and the second digits are interchanged, which will be the third highest number?

- (A) 489 (B) 541 (C) 654 (D) 953 (E) 783

11. If the animals which can walk are called swimmers, animals who crawl are called flying, those living in water are called snakes and those which fly in the sky are called hunters, then what will a lizard be called?

- A) Swimmers B) Snakes C) Flying D) Hunters E) None

12. If "tee see pee" means "Drink fruit juice"; "see kee lee" means "Juice is sweet" and "lee ree mee" means "He is intelligent". Which word in that means 'sweet'?

- A) see B) kee C) lee D) pee E) None of these

13. In certain code language, '467' means 'leaves are green'; '485' means 'green is good' and '639' means 'they are playing'. Which digit stands for 'leaves' in that code?

- A) 4 B) 6 C) 7 D) 3 E) None

14 If PALE, is coded as 2134, EARTH is coded as 41590 , how is PEARL coded in that code?

(a) 29530 (b) 24153 (c) 25413 (d) 25430 (e) None of these

15. What should come next in the following number series ?

9 8 9 8 7 9 8 7 6 9 8 7 6 5 9 8 7 6 5 4 9 8 7 6 5

(A) 3 (B) 4 (C) 2 (D) 1 (E) None of these

Directions (16-19): These questions are based on the following letter / number/ symbol arrangement. Study it carefully and answer the questions that follow:

R D A K 5 V I 2 M J E N 9 7 U Z V 1 W 3 H 4 F Y 8 P 6 T G

16. How many such numbers are there in the above arrangement each of which is immediately preceded by a consonant but not immediately followed by a vowel?

(A) None (B) One (C) Two (D) Three (E) More than three

17. Which element will be eighth to the left of seventeenth from the left end?

(A) M (B) J (C) 8 (D) 5 (E) None of these

18. Which element will be sixth to the right of nineteenth from the right end?

(A) 5 (B) Z (C) V (D) 1 (E) None of these

19. Four of the following are alike in a certain way based on their positions in the above arrangement and so form a group. Which is the one that does not belong to that group?

(A) E9J (B) Z1U (C) HF3 (D) Y48 (E) B2K

Read the following information carefully and answer the questions given below:

A, B, C, D, E, F, G and H are standing in a row facing north. B is not neighbor of G. F is to the immediate right of G and neighbor of E. G is not at the extreme end. A is sixth to the left of E. H is sixth to the right of C.

20 Who among the following are neighbors?

A) AB (B) CG (C) FH (D) CA (E) None of these

21. Which one among the followings defines the position of D?

A) 4th to the right of H (B) 3rd to the right of A (C) Neighbor of B and F (D) To the immediate left of B (E) None of these

22. Which one of the following is true?

A) C is to the immediate left of A (B) D is the neighbors of B and F
C) G is to the immediate right of D (D) A and E are at the extreme ends (E) None

23. Who is at the extreme left?

- A) A B) C C) D D) H E) None of these

24. In a certain code RIPPLE is written as 613382 & LIFE is written as 8192. How is PILLER written in that code ?

- (a) 318826 (b) 318286 (c) 618826 (d) 328816 (e) none of these

25. If GIVE is coded as 5137 and BAT is coded as 924, How is GATE coded?

- (a) 5427 (b) 5724 (c) 5247 (d) 2547 (e) None of these

26. If PALE, is coded as 2134, EARTH is coded as 41590, how is PEARL coded in that code?

- (a) 29530 (b) 24153 (c) 25413 (d) 25430 (e) None of these

27. If in a certain language, ENTRY is coded as 12345 & STEADY is coded as 931785, then state which is the correct code for the SEDATE

- (a) 918731 (b) 954185 (c) 814195 (d) 614781 (e) None of these

28. If in a certain language, ENTRY is coded as 12345 & STEADY is coded as 931785, then state which is the correct code for the ENDEAR

- (a) 524519 (b) 174189 (c) 128174 (d) 124179 (e) 164983

29. In certain code language "dom pul to" means "bring hot food"; "pul tir sop" means "food is good" and "tak da sop" means "good bright boy". Which of the following does mean "hot" in that language?

- A) dom B) pul C) ta D) Can't be determined E) None

30. Arrange the following words according to the dictionary arrangement:

1. Epitaxy 2. Episode 3. Epigene 4. Epitome 5. Epilogue
(A) 1,2,3,4,5 (B) 3,2,5,4,1 (C) 3,5,2,1,4 (D) 5,4,2,1,3 (E) None of these

Directions—(Q. 31-35) Symbols @, %, •, \$ and # are used with following meanings—

'A @ B' means 'A is smaller than B'. 'A % B' means 'A is greater than B'.

'A • B' means 'A is neither greater than nor smaller than B'.

'A \$ B' means 'A is either smaller than or equal to B.'

'A # B' means 'A is either greater than or equal to B'.

Now in each of the following questions assuming the given statements to be true, find which of the two conclusions I and II given below them is/are definitely true and give your answer accordingly. Give answer-

- (A) If only conclusion I is true.

- (B) If only conclusion II is true.
- (C) If either conclusion I or conclusion II is true.
- (D) If neither conclusion I nor conclusion II is true.
- (E) If both conclusions I and II are true.

31. Statements : G @ H, H • Q, Q \$ M

Conclusions : I. M % G II. H \$ M

32. Statements : F • B, B @ E, E # J

Conclusions : I. F @ E II. J \$ B

33. Statements : R \$ H, H % M, M # F

Conclusions : I. F \$ H II. F @ R

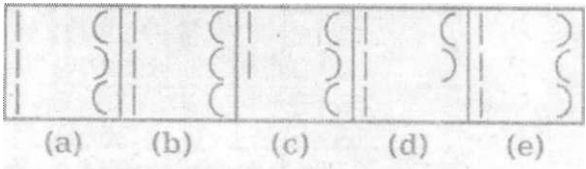
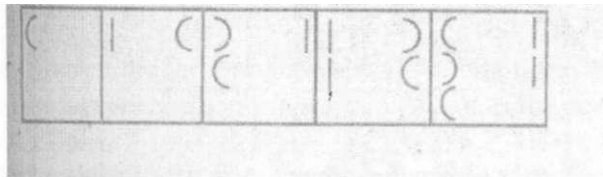
34. Statements : T 9 L, L % W, W @ V

Conclusions : I. L % V II. T % W

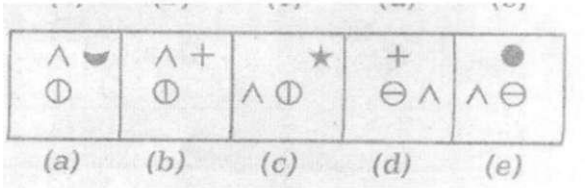
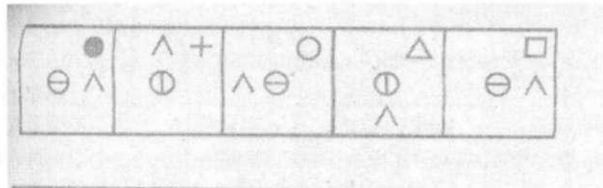
35. Statements : K % L, L # T, I \$ T

Conclusions : I. L % I II. L • I

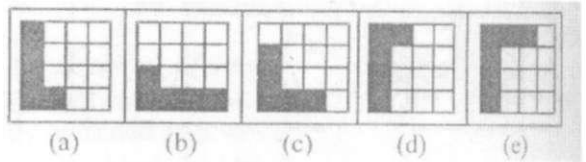
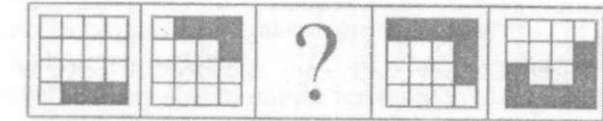
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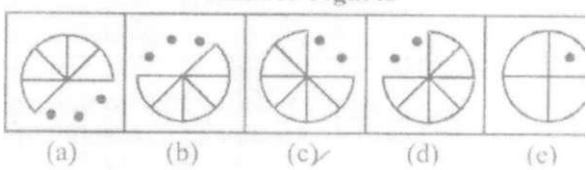
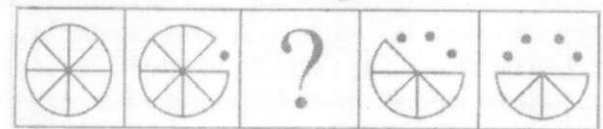
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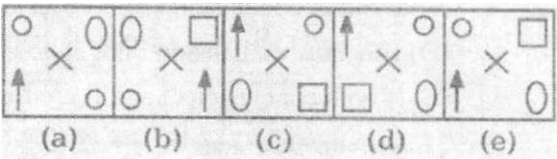
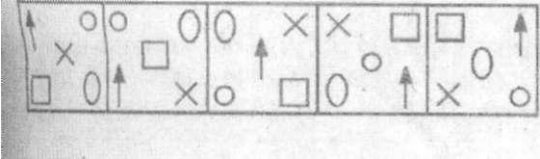


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ANSWER KEY

- | | | | |
|----|---|----|---|
| 1 | D | 21 | B |
| 2 | B | 22 | C |
| 3 | C | 23 | A |
| 4 | B | 24 | A |
| 5 | A | 25 | C |
| 6 | C | 26 | B |
| 7 | E | 27 | A |
| 8 | A | 28 | C |
| 9 | B | 29 | D |
| 10 | D | 30 | C |
| 11 | C | 31 | E |
| 12 | B | 32 | A |
| 13 | C | 33 | D |
| 14 | B | 34 | B |
| 15 | B | 35 | C |
| 16 | E | 36 | A |
| 17 | A | 37 | A |
| 18 | C | 38 | C |
| 19 | D | 39 | C |
| 20 | D | 40 | D |