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Reasoning Ability

1. How many such digits are there in the number 5846937 each of which is as far away from the beginning of the number as when the digits are arranged in descending order within the number ?
   (A) None (B) One
   (C) Two (D) Three
   (E) More than three

2. If 'P' denotes 'multiplied by'; 'R' denotes 'added to'; 'T' denotes 'subtracted from' and 'W denotes 'divided by', then—
   6 4 W 4 P 8 T 6 R 4 = ?
   (A) 96 (B) $2\frac{2}{1}$
   (C) 130 (D) 126
   (E) None of these

3. How many such pairs of letters are there in the word FOREIGN each of which has as many letters between them in the word as in the English alphabet ?
   (A) None
   (B) One
   (C) Two
   (D) Three
   (E) More than three

4. In a certain code CORDIAL is written as 'SPDCMBJ'. How is SOMEDAY written in that code ?
   (A) NPTDEBZ
   (B) NPTFZBE
   (C) TPNDZBE
   (D) NPTDZBE
   (E) None of these

5. In a row of thirty boys, R is fourth from the right end and W is tenth from the left end. How many boys are there between R and W ?
   (A) 15
   (B) 16
   (C) 17
   (D) Cannot be determined
   (E) None of these

6. 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) Black (B) Yellow
   (C) Red (D) Green
   (E) Violet

7. How many meaningful English words can be made with the letters EMLI using each letter only once in each word ?
   (A) One (B) Two
   (C) Three (D) Four
   (E) More than four

8. If it is possible to make only one meaningful English word with the first, the sixth, the eighth and the ninth letters of the word HOARDINGS, which of the following will be the third letter of that word ? If no such word can be made, give 'X' as the answer and if more than one such word can be made, give 'Y' as the answer.
   (A) G (B) I
   (C) S (D) X
   (E) Y

9. Each vowel in the word JOURNEY is replaced by the previous letter in the English alphabet and each consonant is replaced by the next letter in the English alphabet, then the substituted letters are arranged in alphabetical order. Which of the following will be the fifth from the left end ?
   (A) D (B) K
   (C) O (D) T
   (E) None of these

10. In a certain code language 'food is good' is written as 'ho na ta', 'eat food regularly' is written as 'sa ta la' and 'keep good health' is written as 'da na ja'. How is 'eat' written in that code language ?
    (A) sa
    (B) la
    (C) sa or la
    (D) Data inadequate
    (E) None of these

11. Among A, B, C, D and E each having a different weight, D is heavier than A and E and B is lighter than C. Who among them is the heaviest ?
    (A) D
    (B) B
    (C) C
    (D) Data inadequate
    (E) None of these

12. In a certain code DOES is written as '5$3%' and SITE is written as '%4#3'. How is EDIT written in that code ?
    (A) 3 5 4 # (B) 3 # 5 4
    (C) 3 $ 4 # (D) 35 $ #
    (E) None of these

13. What should come next in the following letter series ?
    AZABYABCXABCDWABCDEV ABCDE
    (A) U (B) T
    (C) A (D) G
    (E) None of these

14. 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) 45 (B) 51
    (C) 39 (D) 93
    (E) 85

15. D is brother of B. M is brother of B. K is father of M. T is wife of K. How is B related to T ?

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(A) Son
(B) Daughter
(C) Son or Daughter
(D) Data inadequate
(E) None of these

Directions—(Q. 16-21) Study the following arrangement carefully and answer the questions given below—

B 2 M E J % R 5 @ N D I P 4 © T 3 9 F U 1 $ 6 H J A 7 ⋆ G Q #

16. If all the symbols in the above arrangement are dropped, which of the following will be the twelfth from the right end ?
(A) 4 (B) 3
(C) 9 (D) F
(E) None of these

17. Which of the following is the fifth to the left of the eighteenth from the left end of the above arrangement ?
(A) % (B) A
(C) D (D) 3
(E) None of these

18. How many such vowels are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a consonant ?
(A) None (B) One
(C) Two (D) Three
(E) Four

19. How many such consonants are there in the above arrangement, each of which is immediately preceded by a number and immediately followed by a letter ?
(A) None (B) One
(C) Two (D) Three
(E) More than three

20. Which of the following is the ninth to the right of the twentieth from the right end of the above arrangement ?
(A) D (B) @
(C) 1 (D) 6
(E) None of these

21. Four of the following five 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 N I (B) 9 U $
(C) H A ⋆ (D) 7 G #
(E) D P T

Directions—(Q. 22-27) In each of the questions below are given three statements followed by three conclusions numbered I, II and III. You have to take the given statements to be true even if they seem to be at variance from commonly known facts. Read all the conclusions and then decide which of the given conclusions logically follows from the given statements disregarding commonly known facts.

22. **Statements :**
Some desks are chairs.
Some chairs are pens.
Some pens are drawers.
Conclusions :
I. Some drawers are desks.
II. Some drawers are chairs.
III. No drawer is chair.
(A) None follows
(B) Only II follows
(C) Only III follows
(D) Only either II or III follow
(E) Only I and either II or III follow

23. **Statements :**
All flowers are trees.
Some trees are houses.
All houses are wheels.
Conclusions :
I. Some wheels are trees.
II. Some trees are flowers.
III. Some wheels are flowers.
(A) Only I and II follow
(B) Only I and III follow
(C) Only II and III follow
(D) All I, II and III follow
(E) None of these

24. **Statements :**
All windows are doors.
All buildings are doors.
All doors are boats.
Conclusions :
I. All windows are boats.
II. All buildings are boats.
III. Some boats are doors.
(A) Only I and II follow
(B) Only I and III follow
(C) Only II and III follow
(D) All follow
(E) None of these

25. **Statements :**
Some radios are telephones.
All telephones are mirrors.
All mirrors are desks.
Conclusions :
I. Some radios are desks.
II. Some radios are mirrors.
III. Some desks are telephones.
(A) Only I and II follow
(B) Only I and III follow
(C) Only II and III follow
(D) All follow
(E) None of these

26. **Statements :**
All furnitures are jungles.
No jungle is road.
Some roads are hills.
Conclusions :
I. Some roads are furnitures.
II. Some jungles are furnitures.
III. Some hills are jungles.
(A) Only I follows
(B) Only II follows
(C) Only III follows
(D) Only I and II follow
(E) None of these

27. **Statements:**
All bricks are stones.
Some stones are rocks.
All rocks are mountains.
Conclusions :
I. Some mountains are stones.
II. Some mountains are bricks.
III. Some stones are bricks.
(A) Only I follows
(B) Only III follows
(C) Only I and III follow
(D) All follow
(E) None of these

Directions—(Q. 28-33) In the following questions, the symbols #, %, @, $ and © are used with the following meanings illustrated—

'P # Q' means 'P is not smaller thanQ'.

'P % Q' means 'P is not greater thanQ'.

'P @ Q' means 'P is neither smaller than nor equal to Q'.

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'P $ Q' means 'P is neither greater than nor equal to Q'.

'P © Q' means 'P is neither smaller than nor greater than Q'.

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.

(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.

28. **Statements** : R % N, N # F, F @ B
Conclusions :
I. F O R
II. B $ N

29. **Statements** : H © W, W % R, R @ F
Conclusions :
I. R © H
II. R @ H

30. **Statements** : M $ T, T @ K, K © D
Conclusions :
I. D $ T
II. K $ M

31. **Statements** : H O W, W $ M, M # K
Conclusions :
I. K $ W
II. H @ M

32. **Statements** : F # K, K $ B, B % M
Conclusions:
I. M @ F
II. B @ F

33. **Statements** : R # T, T © M, M @ D
Conclusions:
I. D $ T
II. R # M

Directions—(Q. 34-39) A word and number arrangement machine when given an input line of words and numbers rearranges them following a particular rule in each step. The following is an illustration of input and rearrangement.

Input: go now 52 38 17 for again 65

Step I : 65 go now 52 38 17 for again.

Step II: 65 again go now 52 38 17 for

Step III : 65 again 52 go now 38 17 for

Step IV : 65 again 52 for go now 3817

Step V : 65 again 52 for 38 go now 17

Step VI: 65 again 52 for 38 go 17 now

Step VI is the last step of the rearrangement.

As per the rules followed in the above steps, find out in each of the following questions the appropriate step for the given input.

34. **Input**: show 51 36 new far 81 46 goal
Which of the following steps will be the last but one ?
(A) VII (B) VIII
(C) VI (D) V
(E) None of these

35. **Input**: home turf 39 24 86 44 roll over
Which of the following steps will be the last ?
(A) X (B) IX
(C) VIII (D) VII
(E) None of these

36. Step II of an input is : 76 ask 12 32 begin over join 42
How many more steps will be required to complete the rearrangement ?
(A) Four (B) Five
(C) Six (D) Three
(E) None of these

37. Step IV of an input is : 58 box 47 dew 15 21 town pot which of the following steps will be the last ?
(A) VII (B) VI
(C) VIII (D) IX
(E) None of these

38. Step III of input is : 94 car 86 window shut 52 31 house
Which of the following is definitely the input ?
(A) 94 car window 86 shut 52 31 house
(B) 86 window 94 car shut 52 31 house
(C) Car shut window 86 52 31 house 94
(D) Cannot be determined
(E) None of these

39. **Input** : buy win task 52 38 43 door 12
Which of the following will be step IV ?
(A) 52 buy 43 door 38 task 12 win
(B) 52 buy 43 door 38 task win 12
(C) 52 buy 43 door task win 38 12
(D) There will be no such step
(E) None of these

Directions—(Q. 40-45) In each question below is given a group of letters followed by a combination of digit/symbols lettered (A), (B), (C) and (D). You have to find out which of the combination correctly represents the group of letters based on the following coding system and conditions. If none of the combinations correctly represents the group of letters give (E) *i.e.,* 'None of these' as your answer.

Letters:
M R I T J P Q E U D A F H W
Digit/ Symbol Code:
8 4 9 51 # @ 26 © 3 $ ⋆ 7
Conditions:

(i) If the first letter is a consonant and the last letter is a vowel, the codes are to be interchanged.

(ii) If the first letter is a vowel and the last letter is a consonant both are to be coded as %.

(iii) If both the first and the last letters are vowels, both are to be coded as the code for the first letter.

40. UMQJPA
(A) 38@1#6
(B) 68@1#3
(C) 68@1#6
(D) 6@81#C
(E) None of these

41. RPJWQE
(A) 2#17@4
(B) 4#17@2
(C) 2#17@2
(D) 4#17@4
(E) None of these

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42. FTMQEW
(A) $85@27
(B) 758@2$
(C) $58@2$
(D) 758@27
(E) None of these

43. IREDHP
(A) %42©⋆%
(B) 942©⋆#
(C) #42©⋆9
(D) 942©⋆9
(E) None of these

44. AMQDHI
(A) 38@©⋆9
(B) 98@©⋆9
(C) 98@©⋆3
(D) 38@©⋆3
(E) None of these

45. JDWPUH
(A) 17©#6⋆
(B) 1©7#6⋆
(C) ⋆1©7#6
(D) ⋆©7#61
(E) None of these

Directions—(Q. 46-50) Study the following information carefully and answer the questions given below—

P, Q, R, S, T, V and W are sitting around a circle facing at the centre. V is second to the left of P and second Jo the right of W. T is third to the right of Q and is not an immediate neighbour of V. S is third to the right of R.

46. Who is second to the right of Q ?
(A) R (B) W
(C) T (D) S
(E) None of these

47. Who is to the immediate left of S?
(A) V (B) T
(C) Q (D) W
(E) None of these

48. Who is to the immediate right of R?
(A) W
(B) T
(C) P
(D) Data inadequate
(E) None of these

49. In which of the following groups the first person is sitting between the second and the third persons ?
(A) RPQ (B) TWS
(C) QPR (D) QVS
(E) None of these

50. Who is third to the left of V ?
(A) T (B) S
(C) W (D) R
(E) None of these

Directions—(Q. 51-55) In each question below is given a statement followed by two assumptions numbered I and II. An assumption is something supposed or taken for granted. You have to consider the statement and the following assumptions and decide which of the assumptions is implicit in the statement. Give answer—

(A) If only assumption I is implicit.
(B) If only assumption II is implicit.
(C) If either assumption I or II is implicit.
(D) If neither assumption I nor II is implicit.
(E) If both assumptions I and II are implicit.

51. **Statement** : Many employees of the organization applied for special sabbatical leave of two years to pursue higher education.
Assumptions :
I. The management of the organization may not grant leave to most of these employees.
II. These employees may be able to complete their education during the sabbatical leave.

52. **Statement** : The college administration has instructed all the students to stop using cell phones within the college premises.
Assumptions :
I. The students may stop using cell phones in the college premises.
II. The students may continue to use cell phones in the college premises.

53. **Statement** : The Govt, has decided to levy congestion tax to passengers travelling by air to and fro the metro cities.
Assumptions :
I. The tax so collected may be adequate to meet part of the expenses for providing additional resources to handle huge traffic.
II. Passengers travelling by air to and fro these cities may be able to pay extra amount by way of congestion tax.

54. **Statement** : The local citizens group submitted a memorandum to the civic authority for allowing them to convert the vacant plot in the locality into a garden at their own cost.
Assumptions :
I. The local citizen group may be able to gather enough funds to develop the garden.
II. The civic authority may not accede to the request of the local citizen group.

55. **Statement** : Most of the private companies have decided against awarding annual increase in the salaries of their employees for the previous year due to current economic situations.
Assumptions :
I. Majority of the employees may leave their job to protest against the decision.
II. These companies may announce hike in salaries next year.

Directions—(Q. 56-60) Below in each question are given two statements (1) and (2). These statements may be either independent causes or may be effects of independent causes or a common cause. One of these statements may be the effect of the other statement. Read both the statements and decide which of the following answer choice correctly depicts the relationship between these two statements. Mark answer—

(A) If statement (1) is the cause and statement (2) is its effect.

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(B) If statement (2) is the cause and statement (1) is its effect.

(C) If both the statements (1) and (2) are independent causes.

(D) If both the statements (1) and (2) are effects of independent causes.

(E) If both the statements (1) and (2) are effects of some common cause.

56. (1) There has been continuous increase in average temperature during winter in many parts of the country over the past few years.

(2) There has been significant change in the wind pattern across the country over the last few years.

57. (1) The conditions of all the major roads in the city have deteriorated causing hardship to motorists.

(2) The municipal authority have sanctioned significant amount to repair all the major roads in the city.

58. (1) The BPO sector has laid off a large number of employees in the recent months.

(2) Very few projects are now being outsourced to BPO sector.

59. (1) There has been sharp decline in sales of passenger cars during the last few months.

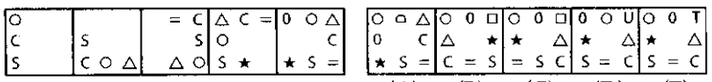
(2) Many finance companies have announced attractive schemes of car loans with moderate interest rate.

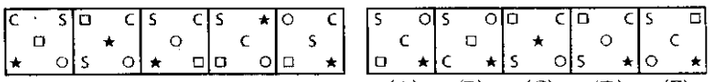
60. (1) All the airlines companies in India have increased the airfares in all routes with immediate effect.

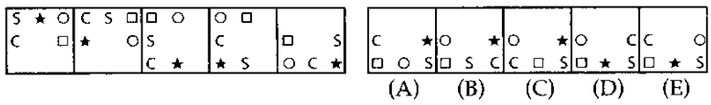
(2) There has been substantial reduction in aviation fuel prices in India during the past few weeks.

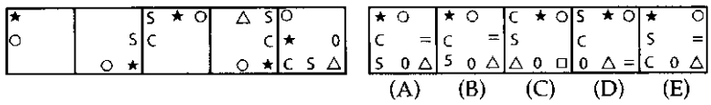
Directions—(Q. 61–65) In each of the questions given below which one of the five answer figures on the right should come after the problem figures on the left, if the sequence were continued ?

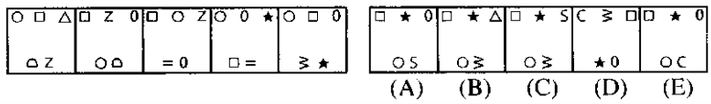
Problem Figures **Answer Figures**

61. 

62. 

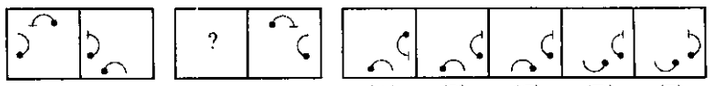
63. 

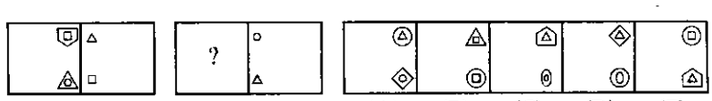
64. 

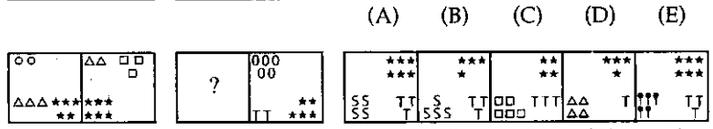
65. 

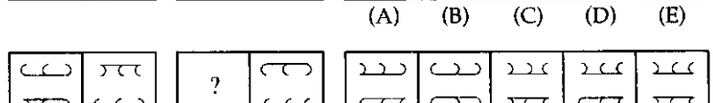
Directions—(Q. 66-70) The first figure in the first unit of the problem figures bears a certain relationship to the second figure. Similarly one of the figures in the answer figures bears the **same relationship** to the second figure in the second unit of the problem figures. You are, therefore, to locate the figure which would fit in the question mark.

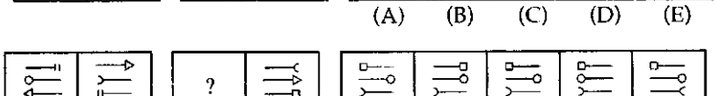
Problem Figures **Answer Figures**

66. 

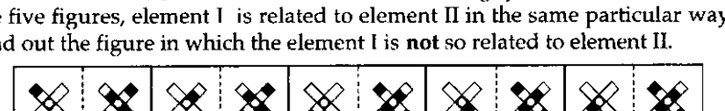
67. 

68. 

69. 

70. 

Directions—(Q. 71–75) In each of the following questions in four out o the five figures, element I is related to element II in the same particular way Find out the figure in which the element I is **not** so related to element II.

71. 

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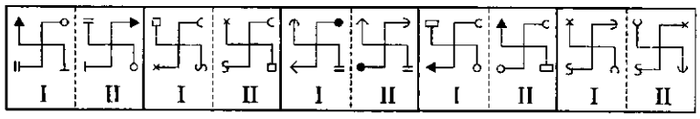
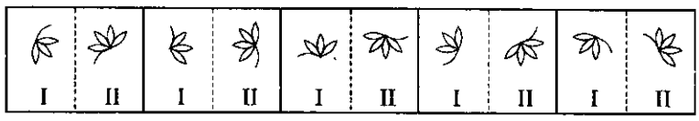
72.



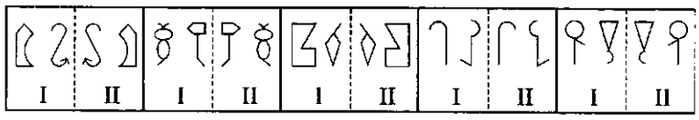
(A) (B) (C) (D) (E)

73.



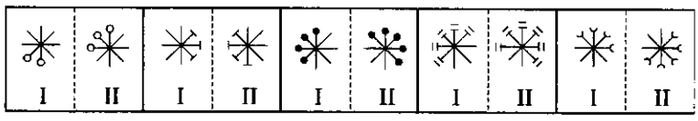
(A) (B) (C) (D) (E)

74.



(A) (B) (C) (D) (E)

75.



(A) (B) (C) (D) (E)