FIITJEE SOLUTIONS

for

NSET – 2012

(NTSE – 2012-13 STAGE - 1)

12/NSET - 2

Time for marking all 90 Questions : 1:30 Hours   Maximum Marks : 90

SET - D

NOTE

1. This question booklet contains 90 questions numbered from **1** to **90** and each question carries 1 mark. All questions are compulsory. **There is no-negative marking**.

2. Tally the number of pages along with no. of questions printed on cover page of the booklet. Also check that question booklet contains the questions of all relevant subjects/topics, as required and stated above and no repetition or omission of questions is evident.

3. If any discrepancy is found in the Question Booklet, the same can be replaced with another correct Question Booklet within first 15 minutes.

4. Before answering the questions please read carefully the instructions printed on the back cover page of the question booklet and strictly follow them. **Indicate your answers by blacking bubbles carefully only on the O.M.R. Answer Sheet provided.**

5. Use of any type of calculator, mobile phone or any other electronic equipment and log table etc. is strictly prohibited.

Directions (Q. Nos. 1- 4)

To answer the questions, read the information carefully :
The six members of a family A, B, C, D, E and F are travelling together. B is the son of C but C is not the mother of B. A and C are married coupple. E is the brother of C. D is the daughter of A. F is the brother of B.

1.   How many male members are there in family ?
(A) 1   (B) 2   (C) 3   (D) 4

Ans.   D

2.   Who is the mother of B ?
(A) D   (B)   F   (C)   E   (D) A

Ans.   A

3.   How many children does A have ?
(A) One   (B)   Two   (C) Three   (D)   Four

Ans.   C

4.   Which of the following is a pair of females ?
(A)   AE   (B) BD   (C)   DF   (D) AD

Ans.   D

Directions (Q. Nos. 5-8):

Study the given information carefully and answer the questions given below :
(i)   A, B, C, D, E, F and G are sitting on wall and facing east.
(ii)   C is on the immediate right to D.
(iii) B is at an extreme end and has E as his neighbour.
(iv) G is between E and F.
(v)   D is sitting third from south end.

5.   Who is sitting to the right of E ?
(A)   A   (B)   C   (C)   D   (D)   G

Ans.   A

6.   Which of the following pairs of people is sitting at the extreme ends ?
(A) AB   (B)   AE   (C) CB   (D)   FB

Ans.   A

7.   Name the person who should change the place with C such that he gets the third place from north end
(A)   E   (B)   F   (C) G   (D)   D

Ans.   D

8.   Immediately between which of the following pairs of people is D sitting ?
(A)   AC   (B)   AF   (C) CE   (D) CF
Ans.   D

Directions (Q. Nos. 9-12):

Read the information carefully and answer the questions given below :
(i)   Seven students P, Q, R, S, T, U and V take a series of tests,
(ii)   No two students get similar marks,
(iii) V always scores more than P.
(iv)   P always scores more than Q.
(v)   Each time either R scores the highest and T gets least, or alternatively S scores highest and U or Q spores (east.

9.   If S is ranked sixth and Q is ranked fifth, whion of the following can be true ?
       (A)   V is ranked first or fourth
       (B)   R is ranked second or third
       (C)   P is ranked second or fifth
       (D) U is ranked third or fourth

Ans.   B

10.   If R is ranked second and Q is ranked fifth, which of the following must be true ?
       (A)   S is ranked third   (B) T is ranked sixth   (C)   P is ranked sixth   (D) V is ranked fourth

Ans.   B

11.   If S is ranked second, which of the following can be true ?
       (A) U gets more than   (B) V gets more than S
       (C) P gets more than R V   (D)   P gets more than V

Ans.   A

12.   If V/s ranked fifth, which of the following must be true ?
       (A) S scores the highest   (B)   R is ranked second
       (C) T is ranked third   (D) Q is ranked fourth

Ans.   A

Directions (Q. Nos. 13-15):

Read the information carefully and answer the questions given below : The sum of the income of A and B is more than that of C and D taken together. The sum of the income of A and C is same as that of B and D taken together. Moreover, A earns half as much as the sum of the income of B and D.

13.   Whose income is highest ?
       (A)   A   (B)   B   (C) C   (D) D

Ans.   B

14.   Which of the following statements is not correct ?
       (A)   A earns more than B   (B)   B earns more than D
       (C) C earns more than D   (D)   B earns more than C

Ans.   A

15.   If A's income be Rs. 80,000 per annum and the difference between the income of B and D be the same as A's income, B's income is :
       (A)   Rs. 40,000   (B)   Rs. 60,000   (C)   Rs. 80,000   (D)   Rs. 1,20,000

Ans.   B

16.   A man is facing North-West. He turns 90° in clockwise direction and then 135° in the anticlockwise direction. Which direction is he facing now ?
       (A)   East   (B) West   (C) North   (D) South

Ans.   B

17. I am facing East. I turn 100° in the clockwise direction and the 145° in anticlockwise direction. Which direction am i facing now ?
(A) East   (B) North-East   (C) North   (D) South-East

Ans. **B**

18. Vinay goes 30 m North, then turns right and walks 40 m, then again turns right and waiks 20 m, then again turns right and walks 40 m. How many metres is he from his original position ?
(A) 0   (B) 10   (C) 20   (D) 40

Ans. **B**

19. A man walks 1 km towards East and then turns towards South and walks 5 km. Again he turns to East and walks 2 km. 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) 7km

Ans. **C**

20. A and B starts moving towards each other from two places 200 m apart. After walking 60 m, B turns left and goes 20 m, then he turns right and goes 40 m. He then turns right again and comes back to the road on which he had started walking. If A and B walk with the same speed, what is the distance between A and B now ?
(A) 20 m   (B) 30 m   (C) 40 m   (D) 50 m

Ans. **C**

21. If A is to the South of B and C is to the East of B, in what direction is A with respect to?
(A) North-East   (B) North-West   (C) South-East   (D) South-West

Ans. **D**

22. A clock is so placed that at 12 noon its minute hand points towards North-East. In which direction does its hour point at 1.30 p.m. ?
(A) North   (B) South   (C) East   (D) West

Ans. **C**

Directions (Q. Nos. 23-27):

In each of the following questions, find which word cannot be made from the letters of the given word ?

23. CARPENTER
(A) Y NECTAR   (B) CARPET   (C) PAINTER   (D) REPENT

Ans. **C**

24. TRIBUNAL
(A) LATIN   (B) BRAIN   (C) URBAN   (D) TRIBLE

Ans. **D**

25. ORGANISATION
(A) NATION   (B) GRANT   (C) RECOGNISE   (D) SATAN

Ans. **D**

26. DEPARTMENT
(A) ENTER   (B) PERMIT   (C) TEMPER   (D) RENTED

Ans. **B**

27. CONSTITUTIONAL
(A) LOCATION   (B) TUTION   (C) TALENT   (D) CONSULT

Ans. **C**

Directions (Q. No. 28-32):

In each of the following questions, arrange the given words in the sequence in which they occur in the dictionary and then choose the correct sequence :

28.   (1) Preach   (2) Praise   (3) Precinct   (4)   Precept   (5)
Precede

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

Ans.   **A**

29.   (1) Select   (2)   Seldom   (3) Send   (4)   Selfish
    (5) Seller

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

Ans.   **C**

30.   (1) Liver   (2) Long,   (3) Late   (4) Load
    (5) Luminous
    (6) Letter

    (A)   3,1,6,2,4,5   (B) 3,1,6,2,5,4   (C) 3,6,1,2,4,5   (D) 3,6, 1,4, 2, 5

Ans.   **D**

31.   (1) Page   (2)   Pagan   (3) Palisade   (4) Pageant   (5)
Palate

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

Ans.   **C**

32.   Which name will be in second place if given names arranged as they appear in telephone directory ?
    (A) Avdash   (B) Avadhesh   (C) Awadesh   (D) Awdjiesh

Ans.   **B**

33.   In a queue, Amrita is 10th from front while Mukul is 25th from behind and Mamta is just in the middle of the two. If there be 50 persons in queue, what position does Mamta occupy from front ?
    (A) 26th   (B) 19th   (C) 18th   (D) 17th

Ans.   **C**

34.   Raman ranks sixteenth from top and forty-ninth from the bottom in a class. How many students are there in the class ?
    (A) 64   (B) 65   (C) 66   (D) None of these

Ans.   **A**

35.   Manisha ranked sixteenth from top and twenty-ninth from the bottom among those passed an examination. Six boys did not appeared in examination and five failed. How many boys were there in the class ?
    (A) 40   (B) 44   (C) 50   (D) 55

Ans.   **D**

36. In a class of 60, where girls are twice that of boys, Kama! ranked seventeenth from the top ? If there are 9 girls ahead of Kamal, how many boys are after him in rank ?
(A) 3   (B) 7   (C)   12   (D) 23

Ans.   C

37. In a row of ten boys, when Rohit was shifted by two places towards the left, he became seventh from the left end. What was his earlierposition from the right end of the row ?
(A) First   (B) Second   (C) Fourth   (D) Sixth

Ans.   B

Directions (Q. No. 38-42):

In each of the following questions, arrange the given words in meaningful sequence and then choose the most appropriate sequence from amongst the alternative provided below :

38. (1)   Site   (2)   Plan   (3) Rent   (4)   Money   (5) Building

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

Ans.   A

39. (1)   Cutting   (2)   Dish   (3) Vegetable   (4) Market   (5) Cooking

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

Ans.   C

40. (1)   Poverty   (2) Population   (3) Death   (4)   Unemployment
(5) Disease

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

Ans.   B

41. (1)   Rainbow   (2)   Rain   (3) Sun   (4). Happy   (5) Child
(A)   2,1,4,3,5   (B)   2,3,1,5,4   (C)   4,2,3,5,1   (D) 4,5,1,2,3

Ans.   B

42. (1)   Index   (2)   Contents   (3)   Title   (4)   Chapters   (5) Introduction
(A) 3,2,5, 1,4   (B)   2,3,4,5,1   (C)   5,1,4,2,3   (D) 3,2,5,4,1

Ans.   A

Directions (Q. Nos. 43-46) :

In each question, a number series is given. In each series only one number is wrong. Find out the wrong number.

43. Given series -

5531,   5506, 5425, 5304, 5135, 4910, 4621 :
(A)   5531   (B)   5425   (C) 4621   (D) 5135

Ans.   A

44. Given Aeries
6,7,9, 13, 6, 37, 69 :
(A) 7　　　　(B) 26　　　　(C) 69　　　　(D) 37

Ans. B

45. Given series - 1,3,10, 36, 152, 760, 4632 :
(A) 3　　　　(B) 36　　　　(C) 4632　　　　(D) 760

Ans. D

46. Given series - 4,3, 9, 34, 96, 219, 435 :
(A) 4　　　　(B) 9　　　　(C) 34　　　　(D) 435

Ans. A

Directions (Q. Nos. 47- 49):

Study the information given below and answer the questions.

An article was purchased for Rs. 5,600. Its price was marked up by 12%. It was sold at 5% discount on the marked price.

47. The marked price of article will be :
(A) Rs. 6,207　　　(B) Rs. 6,242　　　(C) Rs. 6,292　　　(D) Rs. 6,272

Ans. D

48. What was the per cent profit on the transaction ?
(A) 6.8%　　　(B) 6.3%　　　(C) 6.4%　　　(D) 6.6%

Ans. B
49. What was the amount of discount given ?
(A) Rs.319.6　　　(B) Rs. 303.6　　　(C) Rs. 306.3　　　(D) Rs. 313.6

Ans. D

Directions (Q. Nos. 50-52):

What value should come in place of question mark (?) in the questions given below ?

50. 25 x 43　5 = ?
(A) 215　　　　(B) 220　　　　(C) 205　　　　(D) 251

Ans. A

51. + 729 = ?
(A) 758　　　　(B) 763　　　　(C) 741　　　　(D) 751

Ans. A

52. 2850　? = 75
(A) 31　　　　(B) 34　　　　(C) 38　　　　(D) 39

Ans. C

Directions (Q. Nos. 53-57):

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

P, T, V, R, M, D, K and W are sitting around a round table. V is second to the left of T. T is fourth to the right of M. D and P are not immediate neighbours of T. D is third to the right of P. W is not an immediate neighbour of P. P is to the immediate left of K,

53. Who is second to the left of K ?
(A)   P   (B)   R   (C)   M   (D)   W

Ans.   B

54. Who is to the immediate left of V ?
(A)   D   (B)   M   (C)   W   (D)   None of these

Ans.   A

55. Who is third to the right of V ?
(A)   T   (B)   K   (C) P   (D) None of these

Ans.   D

56. What is R's position with respect to V ?
(A) Third to the right   (B) Fifth to the right   (C) Second to the left   (D) Fourth to the left

Ans.   A

57. Three of the following four are alike in a certain way based on their position in the above sitting arrangement and so form a group. Which of the following does not belong to the group ?
(A) DW   (B) TP   (C) VM   (D) RD

Ans.   D

Directions (Q. Nos. 58-62):

There is certain Veialroriship between two words on left side of ::. One word is given on right side of::. Find the word from given alternative, having same relationship as the pair of words has on left side.

58. Paw : Cat:: Hoof: ?
(A) Horse   (B) Lion   (C) Lamb   (D) Elephant

Ans.   A

59. Race : Fatigue :: Fast: ?
(A)   Food   (B) Fruit   (C)   Hunger   (D) Water

Ans.   C

60. Hot: Oven :: Cold : ?
(A)   IceCream   (B) Air Conditioner   (C) Fan   (D) Refrigerator

Ans.   D

61. Cunning : Fox :: Timid :?
(A)   Horse   (B)   Ant   (C) Rat   (D) Lion

Ans.   C

62. College : Student:: Hospital: ?
(A) Nurse   (B) Doctor   (C) Treatment   (D) Patient

Ans.   D

Directions (Q. Nos. 63-65):

Read the following questions carefully and answer.

63. Mathematics is related to Numbers in the same way History is related to :
   (A) People   (B) Events   (C) Dates   (D) Wars

Ans. **B**

64. Accident is related to Carefulness in the same way Disease is related to :
   (A) Sanitation   (B) Treatment   (C) Medicine   (D) Doctor

Ans. **A**

65. Oriya is related to Orissa in the same way Dogri is related to ;
   (A) Himachal Pradesh   (B) Sikkim   (C) Jammu   (D) Assam

Ans. **C**

Directions (Q. Nos. 66-68):

In each of the following questions, a group of three interrelated words is given. Choose a word from the given alternative, that belongs to same group.

66. Ohm : Watt: Volt:?
   (A) Light   (B) Electricity   (C) Hour   (D) Ampere

Ans. **D**

67. Potato : Carrot: Radish : ?
   (A) Tomato   (B) Spinach   (C) Sesame   (D) Groundnut

Ans. **D**

68. Clutch : Brake : Horn : ?
   (A) Scooter   (B) Steering   (C) Car   (D) Accident

Ans. **B**

69. Four words are given below out of which three are alike in some manner and fourth one is different. Choose out the odd one :
   (A) Walk   (B) Run   (C) Ride   (D) Crawl

Ans. **C**

70. Four words are given below out of which three are alike in some manner and fourth one is different. Choose out the odd one :
   (A) Barauni   (B) Trombay   (C) Neyveii   (D) Mettur

Ans. **D**

71. Four words are given below out of which three are alike in some manner and fourtl one is different. Choose out the odd one.
   (A) Circle   (B) Ellipse   (C) Sphere   (D) Cube

Ans. **D**

72. Choose odd pair of the words :
   (A) Volume : Litre   (B) Time : Seconds   (C) Length: Metre   (D) Pressure : Barometer

Ans. **D**

73. Choose odd pair of the words :
(A) Hard : Soft   (B) Long : High   (C) Sweet: Sour   (D) Pointed : Blunt

Ans. **B**

74. Choose odd pair of the words :
(A) Taiwan : Taipei   (B) China : Mongolia   (C) Iran : Tehran   (D) Japan : Tokyo

Ans. **B**

75. Four numbers are given below out of which three are alike in some mariner and fourth is different. Choose the different number:
(A) 11   (B) 13   (C) 15   (D) 17

Ans. **C**

76. Four numbers are given below out of which three are alike in some manner and fourth is different. Choose the different number:
(A) 7   (B) 15   (C) 31   (D) 57

Ans. **A**

77. Four numbers are given below out of which three are alike in some manner and fourth is different. Choose the different number :
(A) 144   (B) 168   (C) 196   (D) 256

Ans. **B**

78. If HEATER is written as KBDQHO, how will you writs COOLER .
(A) ALRHV   (B) FLRIHO   (C) FLIRHO   (D) FRLIHO

Ans. **B**

79. In certain code PAPER is written as SCTGW, how will MOTHER written in that code ?
(A) ORVLGW   (B) PQVJGT   (C) PQXJJT   (D) PQXKJV

Ans. **C**

80. If in certain code POPULAR is coded as QPQVMBS, which word would be coded as GBNPVT ?
(A) FAMOSU   (B) FAMOUS   (C) FASOUM   (D) FOSAUM

Ans. **B**

81. If in certain code CALCUTTA is coded as GEPGYXXE, which word would be coded as^SQFCE ?
(A) BOMBYA   (B) BOMBAY   (C) BOMYAB   (D) BOBAYM

Ans. **A**

Directions (Q. Nos. 82-84):

If MISTAKE is coded as 9765412 and NAKED is coded as 84123, how the words will be coded in the following questions ;

82. DISTANT:
(A) 3765485   (B) 4798165   (C) 3697185   (D) 4768296

Ans. **A**

83. STAIN:
(A) 98175   (B) 89483   (C) 68194   (D) 65478

Ans. **D**

84. ASSIST:
    (A) 166762   (B) 466765   (C) 488976   (D) 435985

Ans. **B**

85. If REASON is coded as 5, BELIEVED as 7, what is the code number of GOVERNMENT?
    (A) 6   (B) 8   (C) 9   (D) 10

Ans. **C**

86. If rain is water, water is road, road is cloud, cloud is sky, sky is sea and sea is path, where do aeroplanes fly?
    (A) Road   (B) Sea   (C) Cloud   (D) Water

Ans. **B**

87. If a man is called girl, girl is called woman, woman is called boy, boy is called butler and butler is called rogue, who will serve in restaurant ?
    (A) Butler   (B) Girl   (C) Man   (D) Rogue

Ans. **D**

88. A man said to a lady "Your mother's husband's sister is my aunt." How is the lady related to man ?
    (A) Daughter   (B) Grand-daughter   (C) Mother   (D) Sister

Ans. **D**

89. A girl introduced a boy as the son of the daughter of the father of her uncle. The boy is girl's;
    (A) Cousin   (B) Son   (C) Uncle   (D) Son-in-law

Ans. **A**

90. Arun said, "This girl is the wife of the grand-son of my mother." Who is Arun to the girl?
    (A) Father   (B) Grand-father   (C) Husband   (D) Father-in-law

Ans. **D**

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