Railway Recruitment Board, Chennai

Traffic Apprentice Examination

Held on: 06 - 04 - 2008

Directions (Q. 1 – 2): Study the information given below and answer the questions that follow.

    A + B means A is the daughter of B.

    A – B means A is the husband of B.

    A × B means A is the brother of B.

1. If P + Q - R, which of the following is true?

    a) R is the mother of P   b) R is the sister - in - law of P

    c) R is the aunt of P   d) R is the mother - in - law of P

2. If P × Q + R, which of the following is true?

    a) P is the brother of R   b) P is the uncle of R

    c) P is the son of R   d) P is the father of R

3. Pointing to a lady, a man said, "The son of her only brother is the brother of my wife". How is the lady related to the man?

    a) Mother's sister   b) Grandmother

    c) Sister of father - in - law   d) Mother - in - law

4. If Anita is taller than Surjit but shorter than Kusum and Surjit is just as tall as Kalpana but taller than Vanita, then Kalpana is

    a) just as tall as Anita   b) taller than Kusum

    c) shorter than Anita   d) shorter than Surjit

5. Among five friends, Mohan is older than Raju but not as old as Lalit. Lalit is older than Neelesh and Kabir. Neelesh is younger than Raju but not the youngest. Who is the fourth in the descending order of age?

    a) Mohan   b) Raju   c) Kabir   d) Neelesh

Directions (Q. 6 – 10): In the following questions, find the number which can be put in the blank to complete the series.

6. 3, 6, 18, 72, (......)

    a) 144   b) 216   c) 288   d) 360

7. 21, 25, 33, 49, 81, (......)

    a) 145   b) 129   c) 113   d) 97

8. 12, 32, 72, 152, (......)

    a) 312   b) 325   c) 515   d) 613

9. 2, 15, 41, 80, (......)

    a) 111   b) 120   c) 121   d) 132

10. 8, 10, 14, 18, (......), 34, 50, 66

    a) 24   b) 25   c) 26   d) 27

Directions (Q. 11 – 15): In the following questions, find the word which holds the same relation with the third word as there is between the first two words.

11. Planet : Orbit : : Projectile : ?

    a) Trajectory   b) Milky way   c) Planet   d) Path

12. Cobbler : Leather : : Carpenter : ?

    a) Furniture   b) Wood   c) Hammer   d) Chair

13. Fire : Ashes : : Explosion : ?

    a) Flame   b) Death   c) Sound   d) Debris

14. Ocean : Water : : Glacier : ?

    a) Refrigerator   b) Ice   c) Mountain   d) Cave

15. Professor : Lecture : : Doctor : ?

    a) Hospital   b) Disease   c) Medicine   d) Patient

Directions (Q. 16 – 20): In the following questions, find the word which cannot be formed by the letters of main word using each letter only once.

16. TEMPERAMENT

    a) METER   b) PETER   c) TENTER   d) TESTER

17. CONTEMPORARY

    a) PARROT   b) COMPANY   c) CARPENTER   d) PRAYER

18. PARAPHERNALIA

    a) EAR   b) NALE   c) RAPER   d) HALL

19. UNCONSCIOUS

    a) SON   b) COIN   c) SUN   d) NOSE

20. TRANQUILITY

    a) QUILT   b) TRINITY   c) TRAIN   d) TRIANGLE

Directions (Q. 21 – 25): Read the following information carefully and answer the questions given below it.

(i) Six persons P, Q, R, S, T and U are standing in two rows facing one another.

(ii) U is second to the right of R.

(iii) P is at last in row.

(iv) T is the neighbour of Q.

(v) R is in front of Q.

21. Which of the following are standing in same row?

a) P, Q and U   b) T, Q and P   c) P, R and T   d) None of these

22. If P and Q interchange their places, who will be to the immediate left of Q?

a) S   b) T   c) U   d) None of these

23. Which of the following pairs is facing each other?

a) P, Q   b) S, T   c) R, U   d) P, S

24. Which of the following statements is definitely true?

a) P is second to the left of R

b) T is to the left of Q

c) R and Q are diagonally opposite to each other

d) None of the above

25. Who among these is not facing each other?

a) P, T   b) R, Q   c) T, S   d) U, P

26. A is facing North - West. He turns 90° in the clockwise direction and then 135° in the anti - clockwise direction. Which direction is he facing now?

a) East   b) West   c) North   d) South

27. If Raman is to the South of Shyam and Mohan is to the East of Shyam, in which direction is Raman with respect to Mohan?

a) North - East   b) North - West

c) South - East   d) South - West

28. Pointing to a photograph, Vipul said, "She is the daughter of my grandfather's only son", How is Vipul related to the girl in photograph?

a) Father   b) Brother   c) Cousin   d) None of these

29.

	36			9			25	
49	26	64	81	21	25	64	?	144
	25			16			36	
	(A)			(B)			(C)	

a) 19   b) 23   c) 25   d) 31

30.

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  (93) (27)    (79) (38)    (67) (16)
      (63)         (37)         (42)
       |            |            |
      (3)          (4)          (?)
      (A)          (B)          (C)
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a) 5   b) 6   c) 8   d) 9

31. Sangeeta remembers that her father's birthday was certainly after eighth but before thirteenth of December. Her sister Natasha remembers that their father's birthday was definitely after ninth but before fourteenth of December. On which date of December was their father's birthday?

a) 10th   b) 11th   c) 12th   d) Data inadequate

32. Satish remembers that his brother's birthday is after fifteenth but before eighteenth of February where as his sister Kajal remembers that her brother's birthday is after sixteenth but before ninteenth of February. On which day in February is Satish's brother's birthday?

a) 16th   b) 17th   c) 18th   d) 19th

33. If the letters of PRABA are coded as 27595, and THILAK as 368451, how will BHARATHI be coded?

a) 37536689   b) 57686535   c) 96575368   d) 96855368

34. If SHARP is coded as 58034 and PUSH as 4658, then RUSH is coded as

a) 3568   b) 3658   c) 3685   d) 3583

35. In a certain code, GARIMA is written as 725432 and TINA as 6482. How is MARTINA written in that code?

a) 3256482   b) 3265842   c) 3645862   d) 3658426

36. Successive discounts of 10% and 20% are equivalent to a single discount of

a) 30%   b) 15%   c) 28%   d) 72%

37. The length of a rectangle is decreased by 10% and its breadth is increased by 10%. By what percent is its area changed?

    a) 0%   b) 1%   c) 5%   d) 100%

38. In the equation $\dfrac{4050}{\sqrt{x}} = 450$, the value of x is

    a) 49   b) 100   c) 81   d) 9

39. If a man travels 160 km by car at the speed of 64 km/h and another 160 km at the speed of 80 km/h, the average speed for the whole journey is

    a) 71.11   b) 81.11   c) 91.11   d) 61.11

40. At simple interest a sum of Rs.64 becomes Rs.83.20 in 2 yr. What will Rs.86 become in 4 yr at the same rate of interest?

    a) Rs.129.40   b) Rs.137.60   c) Rs.142.30   d) Rs.144.80

41. A plot of 575 sq.ft is available at the rate of Rs.5500 per sq.ft. If 25% of the total cost of the plot is to be paid for booking the plot. How much is the booking amount?

    a) Rs.825750   b) Rs.790625   c) Rs.875250   d) Rs.735500

42. If the product of two successive positive integers is 7482. Which is the greater integer?

    a) 87   b) 82   c) 84   d) 89

43. Ms. Anisha deposits an amount of Rs.35000 to obtain a simple interest at the rate of 15% per annum for 4 yr. What total amount will Ms. Anisha get at the end of 4 yr?

    a) Rs.56000   b) Rs.60500   c) Rs.52000   d) Rs.48500

44. What is the compound interest accrued on an amount of Rs.12000 at the rate of 9% per annum. At the end of 2 yr?

    a) Rs.2545   b) Rs.2257.2   c) Rs.2986   d) Rs.2775.4

45. One - seventh of a number is 51. What will be 64% of that number?

    a) 248.12   b) 228.48   c) 238.24   d) 198.36

46. $\dfrac{\sqrt{5}}{\sqrt{3}+\sqrt{2}} - \dfrac{3\sqrt{3}}{\sqrt{5}+\sqrt{2}} + \dfrac{2\sqrt{2}}{\sqrt{5}+\sqrt{3}}$ is equal to

    a) 0   b) $2\sqrt{15}$ c) $2\sqrt{10}$ d) $2\sqrt{6}$

47. The average weight of A, B, C is 45 kg if the average weight of A and B be 40 kg and that of B and C is 43 kg, then the weight of B is

a) 17 kg   b) 20 kg   c) 26 kg   d) 31 kg

48. A man can do a piece of work in 5 days, but with the help of his son, he can do it in 3 days. In what time can the son do it alone?

a) 7 days   b) 8 days   c) $7\frac{1}{2}$ days   d) $6\frac{1}{2}$ days

49. A truck covers a distance of 550 m in 1 min whereas a bus covers a distance of 33 km/s in 45 min. The ratio of their speeds is

a) 4 : 3   b) 3 : 5   c) 3 : 4   d) 50 : 3

50. The percentage increase in the area of a rectangle, if each of its sides is increased by 20% is

a) 40%   b) 42%   c) 44%   d) 46%

51. Some articles were bought at 6 for Rs.5, and sold at 5 for Rs.6. Gain percentage is

a) 5%   b) 6%   c) 30%   d) 44%

52. Rs.750 are divided among A, B and C in such a manner that A : B = 5 : 2 and B : C = 7 : 13.

What is A's share?

a) Rs.350   b) Rs.260   c) Rs.140   d) Rs.250

53. The value of $\dfrac{64 - 0.008}{16 + 0.8 + 0.04}$ is

a) 2   b) 3.8   c) 0.6   d) 4.2

54. If the students of a class can be grouped exactly into 6 or 8 or 10, then the minimum number of students in the class must be

a) 60   b) 120   c) 180   d) 240

55. When simplified the product $\left(1 - \dfrac{1}{2}\right)\left(1 - \dfrac{1}{3}\right)\left(1 - \dfrac{1}{4}\right) \dots \left(1 - \dfrac{1}{n}\right)$ gives

a) $\dfrac{1}{n}$ b) $\dfrac{2}{n}$ c) $\dfrac{2(n-1)}{n}$ d) $\dfrac{2}{n(n+1)}$

56. The HCF of two numbers is 15 and their LCM is 300. If one of the numbers is 60, the other is

a) 50   b) 75   c) 65   d) 100

57. Of the two numbers, 48 percent of first number is 60 percent of the second number. What is the respective ratio of the first number to the second number?

a) 4 : 7   b) 3 : 4

c) 5 : 4   d) Cannot be determined

58. 45% of 1200 = 54% of ?

a) 1080   b) 1320   c) 1240   d) 1000

59. 1354 + 1184 = ? % of 5640

a) 36   b) 42   c) 45   d) 52

60. $5\frac{1}{8}$ of 208 + 786 = 2000 − ?

a) 112   b) 148   c) 184   d) 124

61. A trader marked the price of his commodity so as to include a profit of 25%. He allowed discount of 16% on the marked price. His actual profit was

a) 5%   b) 9%   c) 16%   d) 25%

62. There is a rectangular tank of length 180 m and breadth 120 m in a circular field. If the area of the land portion of the field is 40000 m^2, what is the radius of the field? $\left(\text{take } \Pi = \frac{22}{7}\right)$

a) 130 m   b) 135 m   c) 140 m   d) 145 m

63. If the compound interest on a sum for 2 yr at $12\frac{1}{2}$% per annum is Rs.510, the simple interest on the same sum at the same rate for the same period of time is

a) Rs.400   b) Rs.480   c) Rs.450   d) Rs.460

64. $\dfrac{5\frac{9}{14}}{5 + \dfrac{3}{3 + \dfrac{1}{\frac{3}{5}}}}$ is equal to

a) 1   b) 1.5   c) 2   d) 2.5

65. Which number is 60% less than 80?

a) 24   b) 28   c) 32   d) 36

Directions (Q. 66 − 69): Choose the alternative which is most opposite in meaning of the word given in capitals.

66. HUMBLE

a) Dominant   b) Proud   c) Despotic   d) Pompous

67. EXECRABLE

  A) Importable   b) Acceptable   c) Desirable   d) Irritable

68. PIVOTAL

  a) Stable   b) Trivial   c) Musical   d) Melodious

69. REAR

  a) Front   b) Foreground   c) Forehead   d) Forward

Directions (Q. 70 – 73): Choose the alternative which is most nearly similar in meaning to the word given in capitals.

70. OUTRE

  A) Fair   b) Traditional   c) Real   d) Eccentric

71. TEDIOUS

  a) Tiresome   b) Painful   c) Troublesome   d) Lengthy

72. ASSIMILATE

  a) Absorb   b) Arrange   c) Receive   d) Assemble

73. COTERIE

  A) Mob   b) Group   c) Family   d) Institution

Directions (Q. 74 – 76): Choose the alternative which can be substituted for the given words/ sentence.

**74. ** Belief or opinion contrary to what is generally accepted

  a) Unbelief   b) Superstition   c) Non - conformity   d) Heresy

**75. ** A person obsessed with exclusively one idea or subject

  a) Crazy   b) Kleptomaniac

  c) Monomaniac   d) Nymphomaniac

**76. ** A child of unusual or remarkable talent

  a) Scholar   b) Diligent   c) Freak   d) Prodigy

Directions (Q. 77 – 80): Choose the most appropriate alternative to fill in the blank.

**77. ** The passengers are cautioned .... pickpockets.

  a) to   b) against   c) for   d) about

**78. ** .... knowledge is a dangerous thing.

  a) Less   b) Little   c) A little   d) The little

79. Do not hanker .... worldly pleasures.

   a) after   b) about   c) for   d) towards

80. She died because they did not immediately .... a doctor.

   a) call up   b) call from   c) call in   d) call at

81. Excise duty on a commodity is payable with reference to its

   a) Prodution   b) Production and sale

   c) Production and transportation   d) Production, Transportation and sale

82. Green Revolution was most successful in

   a) Punjab and Tamilnadu   b) Punjab, Haryana and UP

   c) Haryana   d) UP and Maharashtra

83. Amartya Sen was awarded the Nobel Prize for his contribution to

   a) Monetary Economics   b) Welfare Economics

   c) Econometrics   d) Development Economics

84. Which of the following is not viewed as national debt?

   a) Life Insurance Policies   d) Long - term Government Bonds

   c) National Savings Certificates   d) Provident Fund

85. Blue Revolution is related to

   a) Fish production   b) Milk production

   c) Oil production   d) Food production

86. In India, the population growth rate is high because

   a) birth rate as well as death rate remain high.

   b) birth rate has fallen less than the death rate.

   c) death rate has fallen but birth rate remains high.

   d) death rate has fallen less than the birth rate.

87. Scheduled Banks have to be registered with......

   a) SEBI   b) RBI   c) Finance ministry   d) SBI

88. Who among the following visited with Gandhiji in South - Africa?

   a) B.G. Tilak   b) Vallabhbhai Patel

   c) G.K. Gokhale   d) J.L. Nehru

89. Who was the constitutional Advisor to the constituent Assembly of India?

    a) Dr. Rajendra Prasad   b) Dr. B.R. Ambedkar

    c) Sir B.N. Rao   d) Shri K. M. Munshi

90. Who was the first speaker of independent India's Lok - Sabha?

    a) Hukam Singh   b) Bali Ram Baghat

    d) Rubi Ray   d) G.V. Mavlankar

91. In which year Salt Satyagraha took place?

    a) 1929   b) 1930   c) 1931   d) 1932

92. Cabinet mission came to India in the year

    a) 1946   b) 1945   c) 1942   d) 1940

93. Muslim league was founded in the year

    a) 1900   b) 1905   c) 1906   d) 1902

94. Who introduced the famous persian festival of Nauroz?

    a) Alauddin Khilji   b) Iltutmish   c) Firoz Tughlaq   d) Balban

95. The famous 'Gir' forests are located in

    a) Mysore   b) Kashmir   c) Gujarat   d) Kerala

96. The Surface temperature of the sun is estimated as

    a) $6000°$ C   b) $12000°$ C   c) $18000°$ C   d) $24000°$ C

97. Which one of the following planets has no moon?

    a) Mars   b) Neptune   c) Mercury   d) None of these

98. Who invented optical fibre?

    a) Samuel Cohen   b) Narinder Kapany

    c) Percy L. Spencer   d) T.H. Maimah

99. The name of the first cloned sheep was

    a) Molly   b) Dolly   c) Jolly   d) Roly

100. Which city is referred to as the 'Silicon valley of India'?

    a) Mumbai   b) Chennai   c) Hydrabad   d) Bangalore

ANSWERS

1-a; 2-c; 3-c; 4-c; 5-d; 6-d; 7-a; 8-a; 9-d; 10-c; 11-a; 12-b; 13-d; 14-b; 15-c; 16-d; 17-c; 18-d; 19-d; 20-d; 21-b; 22-d; 23-b; 24-b; 25-a; 26-b; 27-d; 28-d; 29-d; 30-d; 31-d; 32-b; 33-c; 34-b; 35-a; 36-c; 37-b; 38-c; 39-a; 40-b; 41-b; 42-a; 43-a; 44-b; 45-b; 46-a; 47-d; 48-c; 49-c; 50-c; 51-d; 52-a; 53-b; 54-b; 55-a; 56-a; 57-c; 58-d; 59-c; 60-b; 61-a; 62-c; 63-b; 64-a; 65-c; 66-b; 67-c; 68-b; 69-a; 70-d; 71-a; 72-a; 73-b; 74-d; 75-c; 76-d; 77-b; 78-c; 79-a; 80-c; 81-a; 82-b; 83-b; 84-c; 85-a; 86-c; 87-b; 88-c; 89-c; 90-d; 91-b; 92-a; 93-c; 94-d; 95-c; 96-a; 97-c; 98-b; 99-b; 100-d.