

Railway Recruitment Board, Malda

Group 'D' Examination

Held on: 22 - 06 - 2008

- A number when divided by 221 leaves remainder 64. What is the remainder if the number is divided by 13?
a) 0 b) 1 c) 11 d) 12
- A number when divided by 3, 5 and 7 successively in order gives remainders 2, 3 and 4 respectively. If it is divided by 105, the remainder will be
a) 15 b) 38 c) 59 d) 71
- A prime number is the number which is divisible by
a) 1 b) 2 c) itself d) 1 and itself only
- Mohan engaged a servant on the condition that he would pay him Rs.200 and a set of clothes after 10 days of his service. The servant left the job after 5 days only. Mohan paid him Rs.20 in cash and a set of clothes as his proportionate wages. The price of the set of clothes is
a) Rs.80 b) Rs.120 c) Rs.140 d) Rs.160
- If 35% of a number is 175, what percentage of 175 is the number?
a) 65% b) 35% c) 280% d) None of these
- An engineering student has to secure 50% marks to pass. He gets 163 marks and fails by 37 marks. Find the maximum marks
a) 200 b) 350 c) 500 d) 400
- In an examination 30% of the students failed in Maths, 40% failed in Science and 25% failed in both the subjects. If 220 passed in both the subjects. Find the number of students appeared in the examination the subjects.
a) 400 b) 600 c) 300 d) 500
- The value of $5 \frac{1}{3} \times 4 \frac{1}{8} \times 13 \frac{1}{5} \div 8 \frac{1}{4} - \frac{3}{5}$ is
a) $2 \frac{1}{3}$ b) $11 \frac{1}{5}$ c) 23 d) 10
- $0.\overline{6} + 0.\overline{7} + 0.\overline{8} + 0.\overline{3}$ yields the result
a) $2 \frac{3}{10}$ b) $2 \frac{33}{100}$ c) $2 \frac{2}{3}$ d) 2.35

10. Shyam's monthly salary is Rs.475 while his monthly expenditure is Rs.425. Find the ratio of his saving to his expenditure
a) 2 : 17 b) 17 : 2 c) 19 : 17 d) 13 : 17
11. In what proportion must sugar at Rs.16.00 per kg be mixed with sugar at Rs.14.50 per kg, so that the mixture may be worth Rs.15.40 per kg?
a) 3 : 4 b) 3 : 2 c) 3 : 1 d) 3 : 5
12. If the first 400 numbers are written down and those divisible by 2 are deleted and again those divisible by 5 are struck off, how many numbers are left out?
a) 150 b) 170 c) 200 d) 160
13. On simplification $9 \times 16 + 224 \div 56 - \frac{1}{2} - \frac{1}{4}$, we get
a) $37\frac{23}{28}$ b) $147\frac{1}{4}$ c) $147\frac{3}{4}$ d) $148\frac{1}{4}$
14. The expression $\left[\sqrt{\frac{4}{3}} - \sqrt{\frac{3}{4}} \right]$ simplifies to
a) $\frac{5\sqrt{3}}{6}$ b) $\frac{1}{2\sqrt{3}}$ c) 1 d) $\frac{-1}{2\sqrt{3}}$
15. If $A : B = 3 : 4$, $B : C = 6 : 9$, $C : D = 12 : 19$ then $A : B : C : D$ is
a) 9 : 12 : 16 : 19 b) 9 : 12 : 18 : 19 c) 6 : 8 : 12 : 19 d) 3 : 4 : 8 : 19
16. Lachchho, Chhelo and Amar started a business. Lachchho invests Rs.5000 for 2 yr, Chhelo invest Rs.4000 for 15 months and Amar invests Rs.3000 for 10 months. If there is a profit of Rs.1925. Find out the share of Lachchho.
a) Rs.550 b) Rs.1100 c) Rs.275 d) None of these
17. A and B enter into a partnership. A supplies whole of the capital amounting Rs.4500 with the condition that the profits are to be equally divided and that B pays A interest on half the capital at 10% per annum. But B receives Rs.120 per month for carrying on the concern. If income of B is half the income of A, what is the total yearly profit?
a) Rs.9000 b) Rs.10000 c) Rs.9180 d) Rs.8000
18. The average age of boys in a class of 30 is 15 yr. If 10 more boys join the class, the average of the whole class is reduced by 1 yr. What is the average age of new comers?
a) 112 b) 111 c) 110 d) 11

19. A man had 5 children. When their average age was 10 yr, the child who was 5 yr of age, died. What was the average age of surviving children 4 yr after the death of the child?
- a) $15\frac{1}{4}$ yr b) $14\frac{3}{4}$ yr c) 15 yr d) 14 yr
20. The average salary of Rajesh, Shyam and Manoj is Rs.800 and the average salary of Shyam, Piyush and Manoj is Rs.900 and if Piyush's salary is Rs.900 what is Rajesh's salary?
- a) Rs.600 b) Rs.500 c) Rs.400 d) Rs.900
21. Two pipes can fill a cistern separately in 24 and 40 min respectively and waste pipe can drain off 30 gallons per minute. If all the three pipes are open, the cistern fills in one hour. What is the capacity of the cistern?
- a) 800 gallons b) 400 gallons
c) 600 gallons d) 500 gallons
22. Rajesh takes 15 min to wash 3 shirts and 30 min to wash and dry 4 shirts and 5 vests. If he takes 30 min to only wash 2 shirts and 10 vests, then what is the time taken for drying?
- a) 5 min b) 15 min c) 10 min d) 0 min
23. 3 men or 7 women can do a piece of work in 32 days. The number of days required by 7 men and 5 women to do a piece of work twice as large is
- a) 21 b) 19 c) 27 d) 36
24. A monkey climbing up a greased pole ascends 12 m and slips down 3 m in alternate minutes. If the pole is 63 m high, how long will it take him to reach the top?
- a) $12\frac{2}{3}$ min b) $12\frac{3}{4}$ min c) $11\frac{2}{3}$ min d) $11\frac{3}{4}$ min
25. A man sells two articles at Rs.990 each. On one he gets a profit of 10% and on the other he loses 10%. His percentage of loss profit will be
- a) 2% gain b) 2% loss c) 1% gain d) 1% loss
26. By selling an umbrella for Rs.30, a shopkeeper gains 20%. During a clearance sale, the shopkeeper allows a discount of 10%. Find his gain percent during the sale season
- a) 7 b) $7\frac{1}{2}$ c) 8 d) 9

27. The cost of 100 shirts is Rs.9000 and transportation charges are Rs.300. For a 20% profit, selling price of a shirt is
a) Rs.115.10 b) Rs.113.50 c) Rs.111.60 d) Rs.109.40
28. The cost of an article is Rs.380. The profit is 20% of the cost while packing expenses are 5% of the sales. The selling price is
a) Rs.450 b) Rs.433.20 c) Rs.480 d) Rs.510
29. A man blends two varieties of coffee, one costing Rs.22 per kg and the other Rs.26 per kg in the ratio 6 : 5. He sells the blended variety at Rs.24.50 per kg. Find the gain or loss percent correct to 2 decimal places
a) 2.56% gain b) 2.86% gain c) 2.36% loss d) 2.86% loss
30. If the radius of a circle is tripled, its perimeter will become how many times of its previous perimeter?
a) Two times b) One - third
c) Nine times d) Three times
31. Which of the following pairs is in correct?
a) Isohytes - Humidity b) Isobars - Pressure
c) Isohels - Sunshine d) Isotherms - Temperature
32. The term 'Isoneph' indicates the lines of equal
a) Cloudiness b) Salinity c) Rainfall d) Pressure
33. The soil which originates under the tall - grass prairie vegetation is called
a) Black soils b) Chestnut soils
c) Chernozem soils d) Terra rosa soils
34. Which one of the following is the highest gravity dam in the world?
a) Beas Dam b) Nangal Dam c) Bhakra Dam d) Hirakud Dam
35. Which from the following was authored by Mulk Raj Anand?
a) The Village b) A Stranger called I
c) Dark Room d) My God Died young
36. Who is the president of the World Bank?
a) Jim Yong Kim b) James Wolfensohn
c) Rodrigo De Rato d) Allen Greenspan
37. Which variety of coal contains recognisable traces of the original plant material?
a) Anthracite b) Lignite c) Peat d) Bitumen

38. Which is the purest form of iron?
a) Steel b) Cast iron c) Pig iron d) Wrought iron
39. Which of the following metals forms an amalgam with other metals?
a) Lead b) Tin c) Zinc d) Mercury
40. Conversion of chemical energy into electrical energy occurs in
a) Dynamos b) Electric heaters
c) Battery d) Atomic bombs
41. Which of the following is the petroleum wax?
a) Bees wax b) Carnauba wax c) Paraffin wax d) Jojoba wax
42. Which is not included in the private income arising in a country?
a) Factor income from net domestic product
b) Net factor income from abroad
c) Current transfers from Government
d) Current payments on foreign loans
43. Which of the following has not been a component of the agricultural strategy that brought about the Green Revolution?
a) Greater intensity of cropping b) Guaranteed maximum prices
c) New agricultural technology d) Package of inputs
44. Which of the following makes the skin layer impervious to water?
a) Collagen b) Melanin c) Keratin d) Chitin
45. Generally, the soil of the northern plains of india has been formed by
a) Degradation b) Aggradation
c) Weathering in Situ d) Erosion
46. Who was the first known Gupta ruler?
a) Sri Gupta b) Chandra Gupta - I
c) Ghatotkacha d) Kumara Gupta - I
47. Which of the following international prizes/ awards is given for outstanding contribution in the field of journalism?
a) Booker Prize b) Pulitzer Prize
c) Sakharov Prize d) Sullivan Award

48. Who is recognised as the Father of Geometry?

- a) Pythagoras
- b) Euclid
- c) Johann Kepler
- d) Rene Descartes

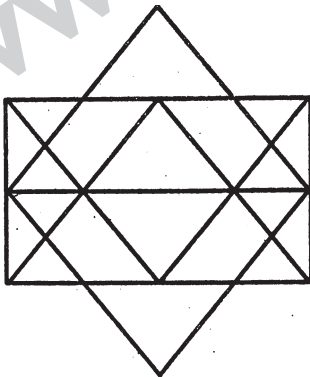
49. The 'break - even point' is where

- a) Marginal revenue equals marginal cost
- b) Average revenue equals average cost
- c) Total revenue equals total cost
- d) None of the above

50. South - South dialogue is associated with

- a) Co - Operation among developing nations
- b) Arms conference
- c) Summit meeting between developed and developing countries
- d) All of the above

51. How many triangles and parallelograms are there in the following figure?



- a) 21, 17
- b) 36, 11
- c) 21, 15
- d) 17, 13

52. I am proceeding towards North. I take a turn to my right. After some time, I take a turn to my left and again to my left. Then I go to my right. After some distance, I again turn towards my right. The direction in which I am moving now is

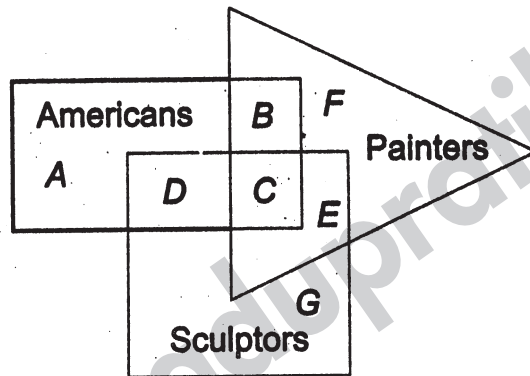
- a) East
- b) West
- c) North
- d) South

53. Which of the following will come in place of the question mark (?) in the following letter series?

BXE, DVI, FTL, HRO, ?

- a) JPL
- b) KPL
- c) JOL
- d) None of these

Directions (Q. 54 - 58): Some diagrams are given below interlocking each other. Each figure represents certain section of people indicated there on. Different regions of the diagram are lettered from 'A' through 'G'. Read the statements of the question 18 to 22 given below the diagram and write down the letter of the region which represents the given statement.



54. Americans who are painters but not sculptors.
 a) B b) C c) D d) A
55. Painters who are neither Americans nor sculptors.
 a) B b) C c) E d) F
56. Non - American painters and sculptors.
 a) C b) E c) F d) G
57. Americans who are sculptors but not painters.
 a) A b) D c) C d) G
58. Americans who are sculptors as well as painters.
 a) B b) C c) D d) E
59. If '+' means '×', '-' means \div , \div means '+' and '×' means '-', then what will be the value of $20 \div 40 - 4 \times 5 + 6 = ?$
 a) 60 b) 1.67 c) 150 d) 0
60. I was born on August 11. Mohan is younger to me by 11 days, This year independence Day falls on Monday. The day on which Mohan's birthday will fall this year will be
 a) Monday b) Tuesday c) Sunday d) Thursday
61. A person is to go up a tree 60 ft high. In every second, he climbs 5 ft but slips 4 ft. After how many seconds, will he be able to touch the top of the tree?
 a) 60 b) 59 c) 56 d) 58

62. If 'A' runs faster than 'E' but not as fast as 'D' and 'D' runs faster than 'C' but not as fast as 'B', then the person who runs the fastest is

- a) A b) B c) C d) D

63. In the Square below, numbers have been filled according to some rule. One square has been left blank. Find the correct number to be filled in the blank square from amongst the given options.

7	28	49
9	45	81
8	?	64

a) 42

b) 36

c) 49

d) 25

64. There are seven persons up on the ladder, 'A' is further up than 'E' but is lower than 'C'. 'B' is in the middle. 'G' is between 'A' and 'B'. 'E' is between 'B' and 'F'. If 'F' is between 'B' and 'D', then the person on the top of the ladder will be

- a) A b) B c) C d) D

65. In a class, 6 students can speak Gujarati, 15 can speak Hindi and 6 can speak marathi. If two students can speak two languages and one student can speak all the three languages, then how many students are there in the class?

- a) 21 b) 22 c) 23 d) 24

Directions (Q. 66 – 68): Read the following statements carefully to answer these questions.

Statements:

- (i) Mohan and Ram play hockey and football
- (ii) Edward and Ram play football and cricket
- (iii) Mohan and Rafiq play tennis and hockey
- (iv) Rafiq and Edward play cricket and tennis

66. Name of the boy who play's hockey, football and tennis

- a) Edward b) Ram c) Mohan d) Rafiq

67. Name of the boy who play's hockey, football and tennis

- a) Ram b) Mohan c) Rafiq d) Edward

68. Name of the boy who play's hockey, cricket and tennis

- a) Mohan b) Ram (c) Rafiq d) Edward

Directions (Q. 69 – 70): Complete the following numbers series.

69. 1, 1, 3, 9, 5, 25, 7, 49, ..., 81

- a) 7 b) 9 c) 8 d) 10

70. 5, 11, 23, 41, 64,

- a) 89 b) 95 c) 101 d) 105

71. Which one of the given responses would be a meaningful order of the following words?

Doctor, Fever, Medicine, Medical Shop

- a) Medical shop, Medicine, Fever, Doctor
b) Fever, Doctor, Medical shop, Medicine
c) Doctor, Medical shop, Medicine, Fever
d) Medicine, Doctor, Medical Shop, Fever

Directons (Q. 72 – 75): Select the related letters/ word/ number/ figure from the given alternatives.

72. Pound : Yen :: Polo : ?

- a) Hockey b) Hourse c) Ride d) Stick

73. Quack : Duck :: Neigh : ?

- a) Fox b) Horse c) Frog d) Cat

74. ACCE : EGGI :: IKKM : ?

- a) MOOQ B) NOOP c) MPPQ d) NPPR

75. SRPQ : ONLM :: KJHI : ?

- a) GEDF b) GFED c) GFDC d) GFDE

Directions (Q. 76 – 78): Select the missing number/ letters/ figure from the given responses.

76. 8, 17, 36, 75, ?

- a) 154 b) 124 c) 174 d) 144

77. 1, 3, 4, 7, 11, ?

- a) 18 b) 17 c) 15 d) 16

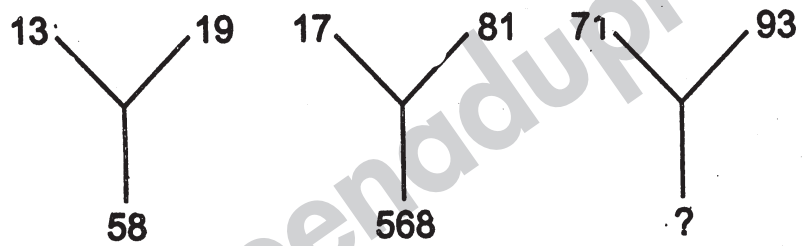
78. ADH, DGK, GJN, ?

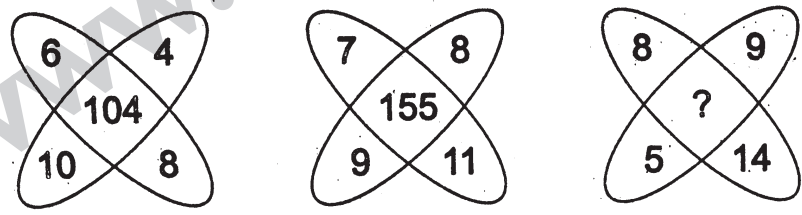
- a) ORV b) JMP c) JLM d) JMQ

79. The flowers in a basket become double after every minute. In one hour, the basket becomes full, After how many minutes the basket would be half - filled?
 a) 30 b) 45 c) 59 d) 58

80. Which one set of letters when sequentially placed at the gaps in the given letter series shall complete it?
 r _ se _ os _ ro _ er _ se
 a) oreso b) rores c) oesrs d) roeso

81. Directions (Q.81 - 83): Find the missing number from the given responses.

81. 
 a) 94 b) 96 c) 98 d) 100

82. 
 a) 152 b) 164 c) 140 d) 142

83.

25	49	81
5	7	?
15	13	11
20	20	20

 a) 9 b) 3
 c) 61 d) 31

84. The word 'UNITED' is coded as 'SLGRCB'. How should the word 'DISOWN' be coded?
 a) BGQMUL b) CGRLTK c) CGRTLK d) BGQLUM

85. A word given in capital letters is followed by four words. Out of these only one cannot be formed by using the letters of the given word. Find out that word.
 ENCYCLOPEDIA
 A) CYCLE b) PENCIL c) YOKE d) DIAL

86. A word is given in capital letters. It is following by four words. Out of these four words, three cannot be formed from the letters of the word in capital letters. Point out the word which can be formed from the letters of the given word in capital letters.

PHILANTHROPIST

a) FIST b) LARK c) HYPOCRISY d) PISTON

87. Six friends are sitting in a circle and playing cards. Kenny is to the left of Danny. Michael is in between Bobby and Johnny. Roger is in between Kenny and Bobby. Who is sitting to the right of Michael?

a) Danny b) Johnny c) Kenny d) Bobby

88. A, B, C, D are four friends. Average age of A and C is 35 yr and that of B, and D is 40 yr. Average age of B, C and D is 40 yr. The sum of the ages of A and D is equal to that of B and C. Find out the ages (in years) of A, B, C and D.

a) 20, 30, 40, 50 b) 20, 25, 30, 35 c) 30, 35, 40, 45 d) 30, 40, 50 60

89. In a certain code the following numbers are coded in a ceratain way by assigngn signs

1 2 3 4 5 6 7 8 9

÷ × - + > < Δ √ □

Which number can be decoded from the following

> □ × √ ÷

a) 59821 b) 59182 c) 52981 d) 59281

90. Arrange the following words according to the dictionary

(A) Grasp (B) Granite (C) Grass (D) Graph (E) Grape

a) E, A, B, C, D b) E, A, C, B, D c) B, E, D, A, C d) B, E, A, D, C

Directions (Q. 91 – 94): Choose the alternative which can be substituted for the given words/ sentence.

91. A person who makes love without serious intentions

a) Consort b) Philanderer c) Romeo d) Goon

92. Opposed to great or sudden change

a) Static b) Revolutionary
c) Conservative d) Evolutionary

ANSWERS

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