



RRB PO Prelims 2018 Memory Based (Quantitative Aptitude)

Directions (41-45): Find the wrong number in the following number series?

Q41. 1, 3, 7, 15, 31, 64, 127

- (a) 1
- (b) 3
- (c) 15
- (d) 64
- (e) 127

Q42. 1, 15, 119, 475, 949, 947, 473

- (a) 947
- (b) 475
- (c) 15
- (d) 473
- (e) 1

Q43. 250, 260, 291, 314, 340, 370, 405

- (a) 370
- (b) 314
- (c) 260
- (d) 405
- (e) 250

Q44. 750, 535, 411, 348, 322, 314, 315

- (a) 315

- (b) 750
- (c) 411
- (d) 348
- (e) 314

Q45. 2, 7, 27, 107, 427, 1708, 6827

- (a) 107
- (b) 1708
- (c) 2
- (d) 6827
- (e) 7

Directions (46-50): Study the line-graph carefully & answer the question given below.

Line-graph given below shows the total no. of products for (kid + adult) in two different stores P & Q in five different years.



Q46. What is the difference between total no. of products in store P in year 2003 & 2004 together and total no. of products in year 2000?

- (a) None of these
- (b) 10
- (c) 20
- (d) 15
- (e) 5

Q47. If total products in both the stores in year 2006 is increased by 20% as compared to year 2004. Then find total no. of products in year 2006?

- (a) 102
- (b) None of these
- (c) 96
- (d) 108
- (e) 92

Q48. What is the ratio of total products in store Q in year 2002 & 2003 together to total products in store Q in year 2000?

- (a) 23: 12
- (b) 23: 11
- (c) 28: 11
- (d) None of these
- (e) 27: 13

Q49. What is the average no. of products in all the years together in store P?

- (a) 48
- (b) 43
- (c) 57
- (d) None of these
- (e) 53

Q50. Total no. of products in store P in year 2003 and in store Q in year 2004 together is what percent more/less than total no. of products in store Q in year 2000?

- (a) 150%
- (b) 40%
- (c) 125%
- (d) 100%
- (e) 50%

Directions (51-55): Solve the given quadratic equations and mark the correct option based on your answer—

Q51. (i) $x^2 - 20x + 96 = 0$

(ii) $y^2 = 64$

- (a) $x \geq y$
- (b) $x \leq y$
- (c) $x > y$
- (d) $x = y$ or no relation can be established between x and y .
- (e) $x < y$

Q52. (i) $4x^2 - 21x + 20 = 0$

(ii) $3y^2 - 19y + 30 = 0$

- (a) $x < y$
- (b) $x > y$
- (c) $x = y$ or no relation can be established between x and y .
- (d) $x \leq y$
- (e) $x \geq y$

Q53. (i) $x^2 - 11x + 24 = 0$

(ii) $y^2 - 12y + 27 = 0$

- (a) $x < y$

(b) $x = y$ or no relation can be established between x and y .

(c) $x \geq y$

(d) $x > y$

(e) $x \leq y$

Q54. (i) $x^2 + 12x + 35 = 0$

(ii) $5y^2 + 33y + 40 = 0$

(a) $x < y$

(b) $x \geq y$

(c) $x > y$

(d) $x = y$ or no relation can be established between x and y

(e) $x \leq y$

Q55. (i) $4x^2 + 9x + 5 = 0$

(ii) $3y^2 + 5y + 2 = 0$

(a) $x = y$ or no relation can be established between x and y .

(b) $x \leq y$

(c) $x \geq y$

(d) $x > y$

(e) $x < y$

Directions (56-60): Study the following paragraph carefully & answer the question given below.

There are 1000 students in a college. Out of 1000 students some appeared in exams 'X', 'Y' and 'Z' while some not. Number of student not appeared in any exam is equal to number of students appeared in exam 'Z' only. Number of students appeared in exam 'Y' is 360. Ratio of number of students appeared in exam 'X' and 'Y' only to number of students appeared in exam 'Y' and 'Z' only is 2: 3. Number of student appeared in exam 'X' and 'Z' both is half of number of students appeared in only exam 'Z'. Number of students appeared in exam 'X' only is 50% more than number of students appeared in 'Y' only. Number of students appeared in all the three exams are 4% of the total number of students in the college. Number of students appeared in 'Y' exam only is same as number of students appeared in 'Y' and 'Z' only.

Q56. How many students appeared in at least two exams?

- (a) 240
- (b) 260
- (c) 300
- (d) 360
- (e) 500

Q57. How many students appeared in two exams only?

- (a) 280
- (b) 220
- (c) 340
- (d) 300
- (e) 260

Q58. How many students appeared in at most two exams?

- (a) 240
- (b) 260
- (c) 300
- (d) 500
- (e) 960

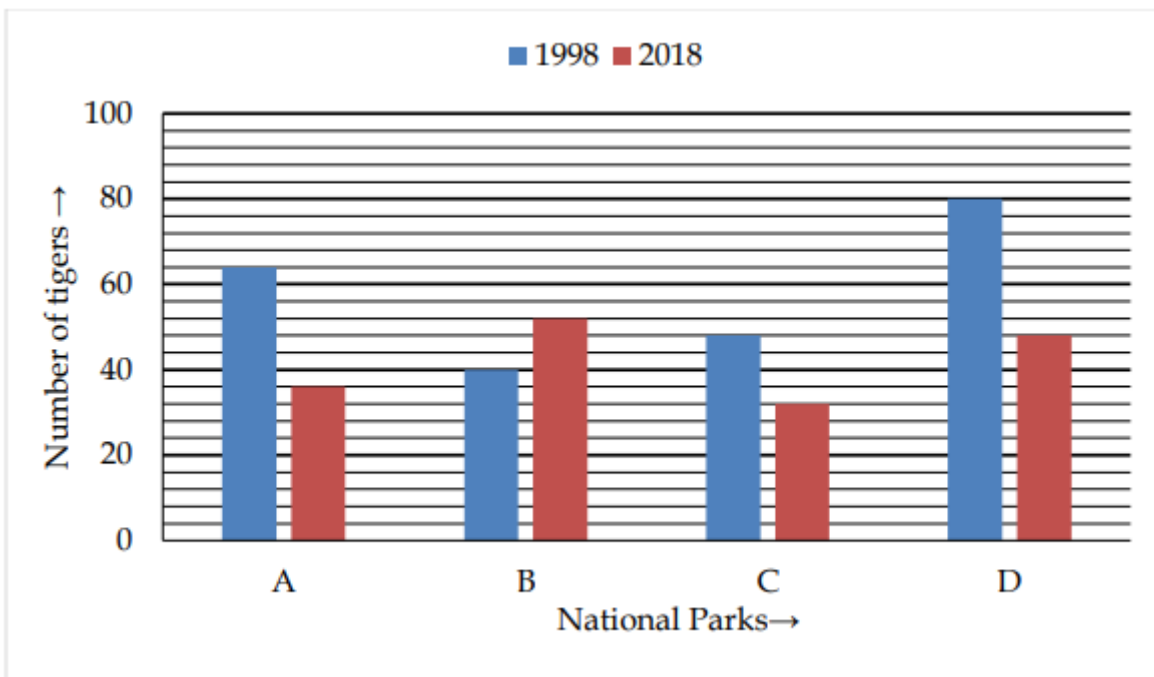
Q59. How many students not appeared in exam Y?

- (a) 440
- (b) 360
- (c) 540
- (d) 640
- (e) None of these

Q60. How many students appeared in exam X or in exam Z?

- (a) 240
- (b) 360
- (c) 500
- (d) 680
- (e) 760

Direction (61-65): - Bar chart given below shows Number of tigers in different National Parks i.e. A to D of a country in two different years. Study the data carefully and answer the following questions



Q61. Number of tigers in National Park B and C together in 2018 is how much less more / less than Number of tigers in National Park A and D together in 1998?

- (a) 40
- (b) 44
- (c) 52
- (d) 60
- (e) 72

Q62. Number of tigers in National Park ‘D’ in both years together is what percent of the Number of tigers in National Park ‘C’ in both years together?

- (a) 60%
- (b) 160%
- (c) 140%
- (d) 120%
- (e) 180%

Q63. Find the ratio between number of tigers in National Park ‘A’ in 2018 to number of tigers in National Park ‘B’ in 1998?

- (a) 9: 10
- (b) 10: 9
- (c) 16: 13
- (d) 13: 16
- (e) 3: 4

Q64. Number of tigers in National Park ‘E’ in 2018 is 40% more than number of tigers in National Park ‘D’ in 1998 while number of tigers in National park ‘E’ in 1998 is 25% less than number of tigers in National Park ‘C’ in 2018. Find total number of tigers in National park ‘E’ in 1998 and 2018 together?

- (a) 148
- (b) 84
- (c) 172
- (d) 160
- (e) 136

Q65. Average number of tigers in all National parks in 2018 is how much less / more than average number of tigers in all National parks in 1998?

- (a) 14
- (b) 16

- (c) 18
- (d) 20
- (e) 22

Q66. The difference between downstream speed and upstream speed of boat is 6 km/hr and boat travels 72 km from P to Q (downstream) in 4 hours. Then find the speed of boat in still water?

- (a) 15 km/hr
- (b) 18 km/hr
- (c) 20 km/hr
- (d) 16 km/hr
- (e) 24 km/hr

Q67. In a vessel, there are two types of liquids A and B in the ratio of 5: 9. 28 lit of the mixture is taken out and 2 lit of type B liquid is poured into it, the new ratio (A: B) thus formed is 1: 2. Find the initial quantity of mixture in the vessel?

- (a) 84 lit
- (b) 42 lit
- (c) 50 lit
- (d) 56 lit
- (e) 70 lit

Q68. The average weight of 5 students in a class is 25.8 kg. When a new student joined them, the average weight is increased by 3.9 kg. Then find the approximate weight of the new student.

- (a) 55 kg
- (b) 49 kg
- (c) 42 kg
- (d) 44 kg
- (e) 58 kg

Q69. A person has purchased two adjacent plots, one is in rectangular shape and other is in square shape and combined them to make a single new plot. The breadth of the rectangular plot is equal to the side of the square plot and the cost of fencing the new plot is Rs. 390 (Rs. 5/m). Find the side of square if the length of the rectangular plot is 15 m.

- (a) 10 m
- (b) 8 m
- (c) 12 m
- (d) 9 m
- (e) 6 m

Q70. A shopkeeper marked his article 50% above the cost price and gives a discount of 20% on it. If he had marked his article 75% above the cost price and gives a discount of 20% on it then find the earlier profit is what percent of the profit earned latter?

- (a) 50%
- (b) 60%
- (c) $33\frac{1}{3}$ %
- (d) 40%
- (e) 75%

Q71. A person invested two equal amounts in two different schemes. In first scheme, amount is invested at 8% p.a. on SI for T years and SI received is Rs 2000 while in second scheme, amount is invested at 10% p.a. for 2 years at CI and the compound interest received is Rs. 1050. Find the value of T.

- (a) 4 yr
- (b) 8 yr
- (c) 6 yr
- (d) 5 yr
- (e) 3 yr

Q72. Satish saves 20% of his monthly salary. And of the remaining salary $\frac{1}{4}$ th and $\frac{1}{2}$ th he gives to his mother and sister respectively and the remaining salary he submits as his EMI for the payment of his car. If his annual EMI was Rs. 60,000, then find his monthly salary?

- (a) Rs. 40,000
- (b) Rs. 35,000
- (c) Rs. 32,000
- (d) Rs. 30,000
- (e) Rs. 25,000

Q73. The sum of four times of an amount 'x' and (x - 9.75) is Rs. 442. Find the approximate value of x.

- (a) Rs. 85
- (b) Rs. 90
- (c) Rs. 100
- (d) Rs. 110
- (e) Rs. 75

Q74. A and B entered into a partnership by investing some amounts. The investment of A is twice of the investment of B. Another person C joined them after 4 months. At the end of a year, the profit share of A and C is equal. Then find the profit share of B is what percent of the profit share of C.

- (a) 50%
- (b) $33\frac{1}{3}$ %
- (c) 40%
- (d) 60%
- (e) 75%

Q75. The ratio of age of Ishu 8 years hence and that of Ahana 6 years hence is 5: 6. The age of Ishu 10 years hence is equal to the age of Ahana 6 years hence. Then, find the present age of Ishu.

- (a) 1.5 yr
- (b) 2 yr
- (c) 3 yr
- (d) 4 yr
- (e) 5 yr

Q76. What is the difference between 20% of P and 20% of (P + 5000)?

- (a) 1500
- (b) 1200
- (c) 1000
- (d) 2000
- (e) 1600

Q77. The ratio of the diameter of base and height of a cylinder is 2: 3. Find the radius of the cylinder if the approximate volume of cylinder is 3234.01 cm³?

- (a) $\frac{21}{2}$ cm
- (b) $\frac{7}{2}$ cm
- (c) 21 cm
- (d) 7 cm
- (e) 14 cm

Q78. A train of some length passes the platform of length 524 m in 55 seconds. Find the length of train if the speed of train is 72 km/hr.

- (a) 476 m
- (b) None of these
- (c) 428 m
- (d) 526 m
- (e) 576 m

Q79. Efficiency of B is two times more than efficiency of A. Both started working alternatively, starting with B and completed the work in total 37 days. If C alone completes the same work in 50 days then find in how many days A and C together will complete the work?

- (a) 24 days
- (b) 30 days
- (c) 36 days
- (d) 48 days
- (e) 18 days

Q80. 7 men and 6 women together can complete a piece of work in 8 days and work done by a woman in one day is half the work done by a man in one day. If 8 men and 4 women started working and after 3 days 4 men left the work and 4 new women joined then, in how many more days will the work be completed?

- (a) 7 days
- (b) 6 days
- (c) 5.25 days
- (d) 6.25 days
- (e) 8.14 days

