

# BOOKS



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## RRB PO Prelims Memory Based (Quantitative Aptitude)

Directions (41-45): Study the table given below and answer the following Question

Company	Total employee	Employee in HR dept	% of Female in HR dept
A	300	80	75
B	250	50	80
C	400	100	60
D	200	60	60

**Q41. Find the average no. of Females in HR department together ?**

- (a) 54
- (b) 46
- (c) 49
- (d) 50
- (e) 52

**Q42. Females in the HR dept of company C is what % more than male in HR department of company A ?**

- (a) 250%
- (b) 200%
- (c) 100%
- (d) 300%
- (e) 150%

**Q43. If total no. of employee in E is 25% more than D and no. of employee in HR dept is same as in company C, then employee other than HR dept in company E is what % of other dept employee in company B.**

- (a) 60%
- (b) 80%
- (c) 75%
- (d) 50%
- (e) 55%

**Q44. Find the difference between males of HR dept in company C and D together and females of HR dept in company B and C together ?**

- (a) 36
- (b) 42
- (c) 48
- (d) 40
- (e) 30

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**Q45. Find the average no. of employee other than HR dept. in A, B and C together ?**

- (a) 280
- (b) 270
- (c) 220
- (d) 300
- (e) 240

**Q46. If there are total 150 females in company C then how many female employees are there other than females of HR department**

- (a) 90
- (b) 100
- (c) 80
- (d) 110
- (e) 120

**Directions (47-51): Find the missing term in the following number series:**

**Q47. 1864, 1521, 1305, ?, 1116, 1089**

- (a) 1160
- (b) 1180
- (c) 1095
- (d) 1205
- (e) 1220

**Q48. 18, ?, 9, 18, 72, 576**

- (a) 12
- (b) 9
- (c) 18
- (d) 10
- (e) 6

**Q49. 12, 6.5, 7.5, 12.75, 27.5, ?**

- (a) 66.5
- (b) 68.75
- (c) 63.75
- (d) 71.25
- (e) None of these

**Q50. 5, 15, 50, ?, 1030, 6185**

- (a) 210
- (b) 205
- (c) 225
- (d) 200
- (e) 195



**Q51. 130, 154, 186, ?, 274, 330**

- (a) 216
- (b) 220
- (c) 240
- (d) 226
- (e) 230

**Q52. If a boat travels 18 km more in downstream than in upstream in 3 hr. and if the speed of the Boat in still water is 20 km/hr. find the distance travelled by boat in downstream in 4 hr. ?**

- (a) 86
- (b) 92
- (c) 68
- (d) 96
- (e) None of these

**Q53. If A invested Rs. 12000 at some rate of interest of S.I and B joined him after 3 months investing 16000 at same rate of interest if A leaves before 2 month of completion, then what will be the share of B's profit after 1 year if total profit is 22000 Rs. ?**

- (a) 10000
- (b) 14000
- (c) 12000
- (d) 8000
- (e) 11000

**Q54. If ratio of ages of P and Q before 4 year ago is 5 : 4 and after 12 years sum of their ages will be 68 years, their what was P's age 2 years ago ?**

- (a) 24 years
- (b) 22 years
- (c) 18 years
- (d) 26 years
- (e) 20 years

**Q55. If Pipes A and B can fill a tank in 15 min and 20 mins respectively and pipe C empties the tank in 12 mins. what will be the time taken by A, B and C together to fill the tank completely?**

- (a) 25 min
- (b) 30 min
- (c) 40 min
- (d) 20 min
- (e) 35 min

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**Directions (56-60):** Solve the given quadratic equations and mark the correct option based on your answer—

- (a)  $x > y$
- (b)  $x < y$
- (c)  $x \geq y$
- (d)  $x \leq y$
- (e)  $x = y$  or there is no relationship

Q56. (i)  $x^2 = 81$  (ii)  $y^2 - 18y + 81 = 0$

Q57. (i)  $4x^2 - 24x + 32 = 0$  (ii)  $y^2 - 8y + 15 = 0$

Q58. (i)  $x^2 - 21x + 108 = 0$  (ii)  $y^2 - 17y + 72 = 0$

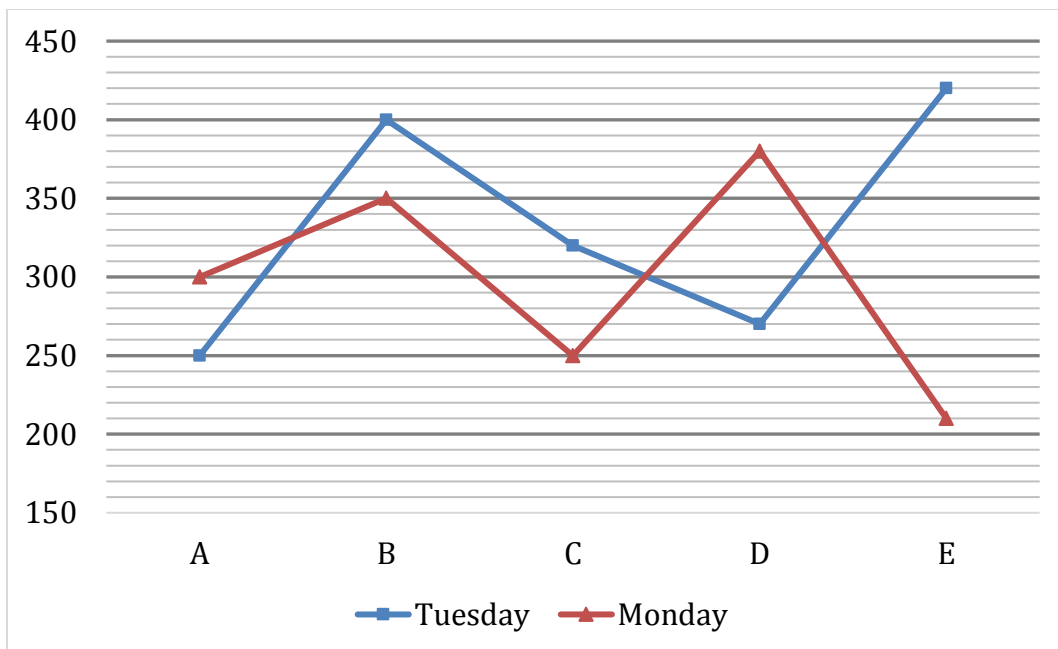
Q59. (i)  $x^2 - 11x + 30 = 0$  (ii)  $y^2 - 15y + 56 = 0$

Q60. (i)  $x^3 = 512$  (ii)  $y^2 = 64$

Q61. If a shopkeeper marks an item 50% above its CP and if 12% discount is given on the marked price and the shopkeeper makes profit of 256 Rs, then what will be the actual cost price of the item?

- (a) 1000 Rs.
- (b) 800 Rs.
- (c) 750 Rs.
- (d) 1200 Rs.
- (e) 900 Rs.

**Directions (62-67):** The line graph shows the data of five seller selling an item(in units) on Monday and Tuesday.



**Q62. The no. of item sold by A and C together is how much more or less then items sold by B and D together on both days ?**

- (a) 250
- (b) 280
- (c) 300
- (d) 320
- (e) 350

**Q63. What is the average no. of items sold by all five sellers on Monday ?**

- (a) 298
- (b) 305
- (c) 280
- (d) 300
- (e) 315

**Q64. Items sold by B and C on Tuesday together is what % more than same sellers on Monday together ?**

- (a) 25%
- (b) 30%
- (c) 20%
- (d) 15%
- (e) 24%

**Q65. Find the difference between items sold by B, D, E on Monday together items sold by B and E on Tuesday together**

- (a) 150
- (b) 180
- (c) 160
- (d) 120
- (e) 200

**Q66. Item sold On Monday by C and E together is approximately what percentage of total items sold by A and B together on Tuesday ?**

- (a) 71%
- (b) 80%
- (c) 55%
- (d) 85%
- (e) 65%

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**Q67. Find the difference between the average items sold by A and B together on Monday and average of items sold by B and C together on Tuesday?**

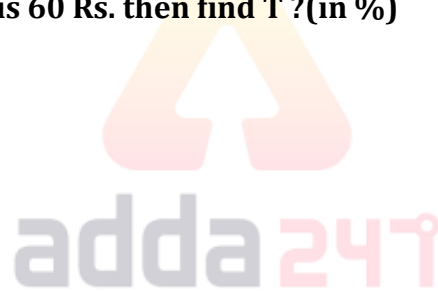
- (a) 45
- (b) 35
- (c) 25
- (d) 40
- (e) 50

**Q68. If A start from P with speed 60 km/hr at 8:00 am and B starts with speed 70 km/hr. at 8 : 30 am from Q and total distance between P and Q is 680 km, find at what time they will cross each other?**

- (a) 2 : 30pm
- (b) 1 : 30pm
- (c) 12 : 30pm
- (d) 3 : 00pm
- (e) 4 : 00pm

**Q69. If a person invested 6000 at T% S.I for 3 year and same amount at (T + 5)% CI for 2 year and difference between both interest is 60 Rs. then find T?(in %)**

- (a) 15
- (b) 18
- (c) 20
- (d) 24
- (e) 25



**Direction (70-74): Read the data carefully and answer the question.**

There are 1800 students in two school 'A' & 'B' and three streams in each school i.e. art, science & commerce.  $18\frac{3}{4}\%$  of total students in school A are in commerce stream and  $28\frac{4}{7}\%$  of total students in school B are in science stream. Sum of total students in commerce stream in A & science stream in B is 420.  $19\frac{1}{21}\%$  of total students in school B are in commerce stream and 50% of total students in school A are in Art stream.

**Q70. Total students in art stream in A is what percent more than total students in science stream in B?**

- (a) 75%
- (b) 70%
- (c) 90%
- (d) 100%
- (e) 110%

**Q71. Find the ratio of total students in commerce stream in B to total students in science stream in A?**

- (a) 8 : 15
- (b) 8 : 17
- (c) 8 : 13
- (d) 8 : 11
- (e) 8 : 9

**Q72. If in school C total students are 720 students and total students in science stream of school C are 25% more than total students in commerce stream in school B, then find total students of art & commerce stream in school C is how much less than total students in art and commerce stream in school A?**

- (a) 120
- (b) 110
- (c) 150
- (d) 100
- (e) 140

**Q73. Find the average number of students in science stream in school A & B?**

- (a) 250
- (b) 270
- (c) 240
- (d) 200
- (e) 225

**Q74. If out of total students in art stream of school A & B ratio of boys to girls is 5 : 3 and 7 : 4 respectively, then find difference between boys and girls in art stream of school A & B together?**

- (a) 220
- (b) 225
- (c) 240
- (d) 248
- (e) 224

**Q75. P invested 60% more than Q and R invested 20% more than Q. If ratio of investment time-period (P: Q: R) is 2: 4: 3 and the sum of profit shares of Q and R is Rs. 8550 then find the profit share of P.**

- (a) Rs. 3200
- (b) Rs. 4000
- (c) Rs. 2400
- (d) Rs. 3600
- (e) Rs. 3000

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**Q76. When a person sold an article, his profit percent is 60% of the selling price. If the cost price is increased by 75% and the selling price remains the same, then find decrement in the profit is what percent of the selling price of the article?**

- (a) 25%
- (b) 30%
- (c) 40%
- (d) 27.5%
- (e) None of these

**Q77. Area of I<sup>st</sup> circle and circumference of II<sup>nd</sup> circle is  $1386 \text{ cm}^2$  and  $176 \text{ cm}$  respectively. There is a square whose side is  $35\frac{5}{7}\%$  of twice of sum of the radius of both the circles. Find the perimeter of the square (in cm)?**

- (a) 132
- (b) 136
- (c) 140
- (d) 116
- (e) 124

**Q78. There are 5 red, 6 black and 5 blue balls in a bag. Out of these balls, four balls are picked at random from the bag. Then, what is the probability that one is red, two are black and one is blue ball?**

- (a)  $\frac{75}{362}$
- (b)  $\frac{75}{364}$
- (c)  $\frac{71}{362}$
- (d)  $\frac{70}{363}$
- (e)  $\frac{5}{26}$

**Q79. An article is marked  $66\frac{2}{3}\%$  above the cost price and loss incurred on selling that article is 25% of the discount given on it. Then, find the discount % given?**

- (a)  $48\frac{1}{3}\%$
- (b)  $53\frac{1}{3}\%$
- (c)  $58\frac{1}{3}\%$
- (d)  $63\frac{1}{3}\%$
- (e) 60 %

**Q80. A train travelling at 72 km/hr. crosses a platform of 160 m in 18 second and another train travelling at 90 km/hr crosses the same platform in 15 second. Find the length of another train?**

- (a) 160 m
- (b) 180 m
- (c) 140 m
- (d) 200 m
- (e) 215 m

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