



**(Papers) RRB Group D : Exam Paper & Answer Key**  
**Date: 25 Oct 2018 Shift-1 (Mathematics)**

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**Q1. 1m = .....nm**

- a. 106
- b. 107
- c. 108
- d. 109

**Q2. Mr. X runs a marathon starting from the point A he runs 5 km towards north and reach point B, then turns right runs 6 km reach point C, then turn left runs 8 km and reach point D, then turns right runs 10 km and reach point E, then turns right runs 6 km and reach point F, then turns right runs 1 km and reach point G, then turn rights runs 3 km and reach point H. The shortest distance between point D and G is?**

- a.  $2\sqrt{13}$
- b.  $\sqrt{13}$
- c.  $3\sqrt{13}$
- d. 13

**Q3. A man from point 'O' and travels km towards east to reach point 'A'; then, he turns right and travels 10 km to reach point 'B'; then, he turns right and travel 9 km to reach point 'C'; then, he turns right and travel 5 km to reach point 'D; then , he turns left and travel 12 km to reach point E'; and finally he turns right and travel 6 km to reach point 'F'.**

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

**Q4. In an examination, a candidate must get 65% marks to pass. If a candidate gets 210 marks and fails by 50 marks, out of how many marks was the examination?**

- a. 325
- b. 335
- c. 400
- d. 355

**Q5. The mean of the 5 smallest numbers from a group is 21 while the mean of all the numbers of the group taken together is 25. If the mean of the numbers, leaving the smallest five out, is 27.5, how many numbers were there in the group in all?**

- a. 12
- b. 13
- c. 8
- d. 14

**Q6. In a mixture of 50 liters, milk and water are in the ratio of 3:2. How much water should be added to make the ratio of the two equal?**

- a. 20 liters
- b. 14 liters
- c. 10 liters
- d. 15 liters

**Q7. Simplify the following expression:**

$$\left(\frac{2}{3} \times \frac{1}{6} + \left(\frac{2}{3} \times \frac{7}{2}\right) - \left(\frac{13}{44} \div \frac{3}{1}\right)\right) = ?$$

- a.  $\frac{14}{3}$
- b.  $-\frac{17}{9}$
- c.  $\frac{29}{3}$
- d.  $\frac{23}{9}$

**Q8. Two pipes A and B can fill an empty cistern in 4.8 and 7.2 hours, respectively. Pipe C can drain the entire cistern in 9.6 hours when no other pipe is in operation. Initially when the cistern was empty, Pipe A and Pipe C were turned on. After a few hours. Pipe A was turned off and Pipe B was turned on instantly. In all it took 16.8 hours to fill the cistern. For how many hours was Pipe B turned on?**

- a. 11.55
- b. 12.6
- c. 10.5
- d. 10.8

**Q9. If Seeta walks from her home to school at a speed of 4 km/h, she is late by 9 min. If she walks at a speed of 6 km/h, she reaches the school 6 min early. What is the distance between her school and her home?**

- a. 4 km
- b. 7 km
- c. 6 km
- d. 3 km

**Q10. A train a 520 m long platform in 36 seconds. How long was the train if it was travelling at a speed of 70 km/h?**

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- a. 150m
- b. 180m
- c. 140m
- d. 160m

**Q11. How much would one need to add to the difference of 5.42 and 3.56 to get 10?**

- a. 8.14
- b. 6.44
- c. 1.02
- d. 4.58

**Q12. By selling a laptop for 21,150 Mirwalz makes a profit of 17.5%. What should have been the selling price to make a profit of 22.5%?**

- a. 22,350
- b. 21,950
- c. 22,150
- d. 22 ,050

**Q13. The LCM of the prime numbers between 1 to 12 is**

.....

- a. 1000
- b. 2020
- c. 2310
- d. 1010

**Q14. Type 1 workers are two-and-a-half times as efficient as Type 2 workers. If 12 Type 1 workers can complete a task in 10 days, how many days would it take 6 Type 1 and 10 Type 2 workers to complete the same task?**

- a. 12
- b. 15
- c. 14
- d. 18

**Q15. The radius of curvature of a spherical mirror is equal to .....**

- a.  $f-2$
- b.  $2f$
- c.  $f+2$
- d.  $f/2$

**Q16. Simplify:  $(\frac{5}{8} + \frac{3}{4})$  of  $\frac{4}{11} \div \frac{3}{16} - \frac{1}{2} \times \frac{3}{4} = ?$**

- a.  $\frac{41}{13}$
- b.  $\frac{37}{11}$
- c.  $\frac{55}{24}$
- d. 1

**Q17. What is the largest size of square tiles that can be used to cover the floor of a room of size 5.25 m x 4.55 m?**

- a. 25 cm
- b. 35 cm
- c. 45 cm
- d. 55 cm

**Q18. An athlete runs 400 m in 20 s. Calculate the average speed of the athlete.**

- a. 2 ms<sup>-1</sup>
- b. 40 ms<sup>-1</sup>
- c. 20 ms<sup>-1</sup>
- d. 4 ms<sup>-1</sup>

**Q19. Dilip invested Rs.100 for three years at a compound interest rate of 10%. Haru also invested Rs.100 for three years at simple interest rate of x %. At the end of three years, both received the same amount of money. What is the value of x ?**

- a. 11.03
- b. 11.30



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- c. 11.05
- d. 10.93

**Q20. If  $\sin A = 12/13$  then the value of  $(\sec A + \operatorname{cosec} A)$  is:**

- a.  $67/20$
- b.  $221/60$
- c.  $11/3$
- d.  $211/60$

**Q21. Ratul and Pratul together can complete a task in 18 days. They start the task together, but Ratul had to leave 7 days before the work got over. As a result it took a total of 23 days to complete the task. How many days would it have taken Pratul to complete the work by himself?**

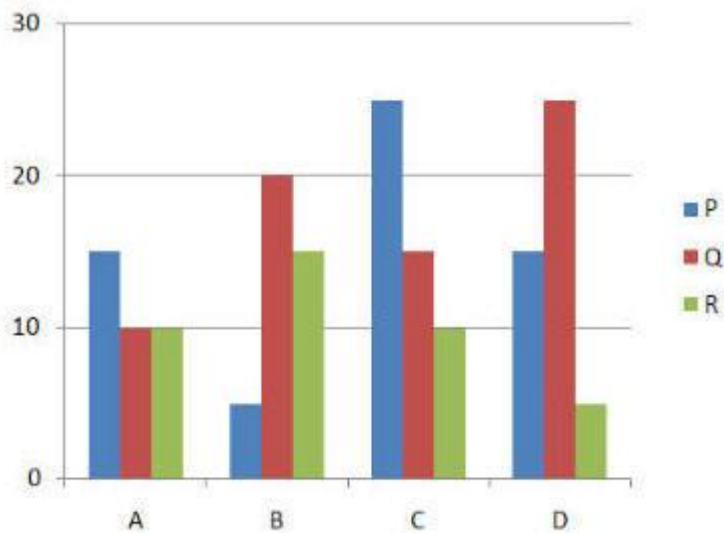
- a. 63
- b. 51
- c. 72
- d. 54

**Q22. A wholesaler sells books to a retailer at 10% profit. The retailer sells these books to customers at a profit of 8%. If the customer pays Rs. 270 for a book. then find the cost of the book to the retailer.**

- a. Rs.500
- b. Rs.400
- c. Rs. 330
- d. Rs. 250

**Q23. A shopkeeper sells two power banks for Rs. 960 each. On one he gains 20% and on the other he incurs a loss of 20%. What was his gain or loss in the overall transaction?**

- a. 4% gain
- b. 5% loss
- c. 4% loss
- d. 5% gain



**Q24.**

**The above bar graph represents the production of three grains P, Q, R in four states A, B, C, D. The state that produced the minimum grains (all 3 combined) is:**

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

**Q25. In an auditorium, the number of rows is equal to the number of chairs in each row. If there are 5184 chairs in total. how many rows are there?**

- a. 71
- b. 70
- c. 73
- d. 72

**ANSWER**

- 1. (d) 2. (c) 3. (c) 4. (c) 5. (b) 6. (c) 7. (b) 8. (d) 9. (d) 10. (c)  
 11. (a) 12. (d) 13. (c) 14. (a) 15. (b) 16. (c) 17. (b) 18. (c) 19. (a)  
 20. (b) 21. (a) 22. (d) 23. (c) 24. (c) 25. (d)**



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