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RRB Group D

Railway Recruitment Board

# (Papers) RRB Group D : Exam Paper & Answer Key Date: 03 Oct 2018 Shift-2 (Mathematics)

## Q1. The square root of 7569 is:

a. 87
b. 93
c. 83
d. 77

## Q2. The graph below shows the expenditure of a public sector company 'ABC' under different heads for the financial year 2015-16.

## Lakh crores

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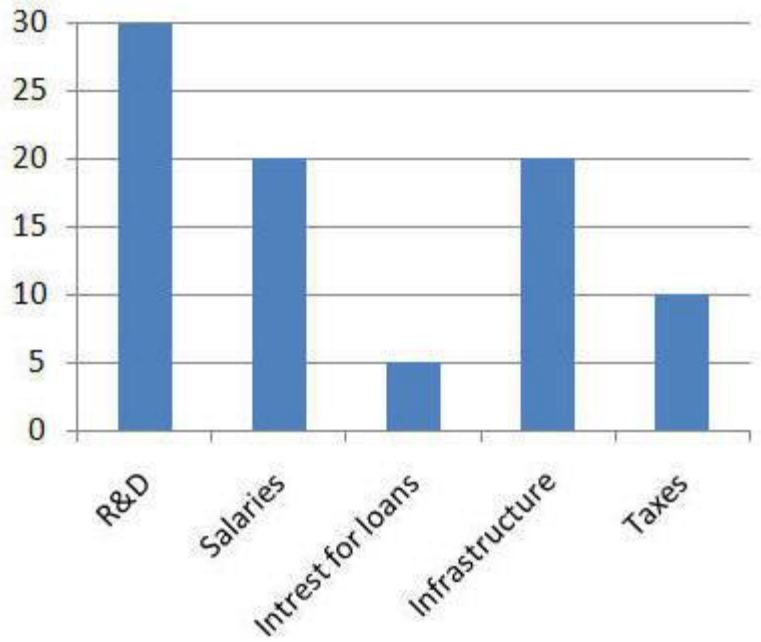


## How much did company ABC spend on infrastructure in 2015-2016?

a. 20 lakh crores
b. 30 lakh crores
c. 25 lakh crores
d. 5 lakh crores

## Q3. What is the answer of 1/6 + 1/12 + 1/20 + 1/30 + 1/42 + 1/56

a. 11/24
b. 3/8
c. 7/16
d. 13/28

## Q4. The ratio of the average ages of three people and the other two in a group of five people is 9 : 7. If the difference of their averages is 12, then find out the average age of all 5 people?

a. 64.8
b. 46.8

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c. 49.2
d. 48.4

## Q5. 6 6 8 5 5 3 7 3 7 2 5 8 8 7 8 1 5 5 3 6
## How many 5 are there in the above sequence that are completely divisible by the number on their left but not divisible by the number on their right?

a. 2
b. 3
c. 0
d. 1

## Q6. $2\cos(\theta-\pi/2) + 3\sin(\theta+\pi/2) - (3\sin\theta + 2\cos\theta) = ?$

a. $\cos\theta - \sin\theta$
b. $\sin\theta - \cos\theta$
c. $\sin\theta + \cos\theta$
d. $\cot\theta - \tan\theta$

## Q7. The speed of a boat in still water is 12 km/h. If the boat covers a distance of 38 km upstream in 4 hours; then the speed of the stream (in km/h) is:

a. 6.5
b. 3.17
c. 2.5
d. 3

## Q8. Solve the following equation to find x:
## (x — 2)2 — 36 = 0; x € N

a. 4
b. -4
c. -8
d. 8

## Q9. Find the three prime numbers such that product of the first two is 1147 and the product of the last two numbers is 1517?

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a. 21,47,61
b. 31,37,61
c. 21,37,41
d. 31,37,41

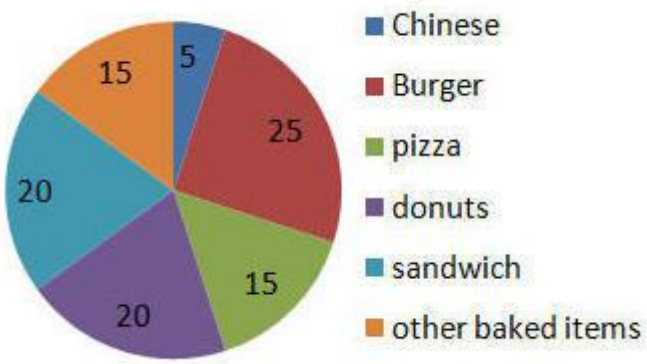
## Q10. What is the value of one-fourth of G?
## If G = (96 ÷ 12)- 14x (12 + 8) ÷ 2 ?

a. 38
b. 36
c. 148
d. 37

## Q11. 99x99=?

a. 9791
b. 9801
c. 9881
d. 9901

## Q12. The following pie diagram shows information on the sales of different types of food items by restaurant "XYZ".




## The total revenue made by the restaurant in NOV 2017 was 35 lakhs.
## How much revenue was made by the restaurant "XYZ through the sales of Chinese food items?

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a. 1.5 Lakhs
b. 2 Lakhs
c. 0.5 Lakhs
d. 1.75 Lakhs

## Q13. An article was sold for Rs. 3,600 at a discount of 10%. Find the selling price if the discount was 15%.

a. Rs. 3600
b. Rs. 4000
c. Rs. 3800
d. Rs. 3400

## Q14. I walk a certain distance and ride back, taking 13/2 hours in total. I could walk both ways in a total of 31/4 hours. How long will it take me to ride both ways?

a. 6 h 15 min
b. 5 h 55 min
c. 4 h 15 min
d. 5 h 15 min

## Q15. The given bar graph shows the sales revenue of steel company 'ABC' for the past four years.
## Sales in millions

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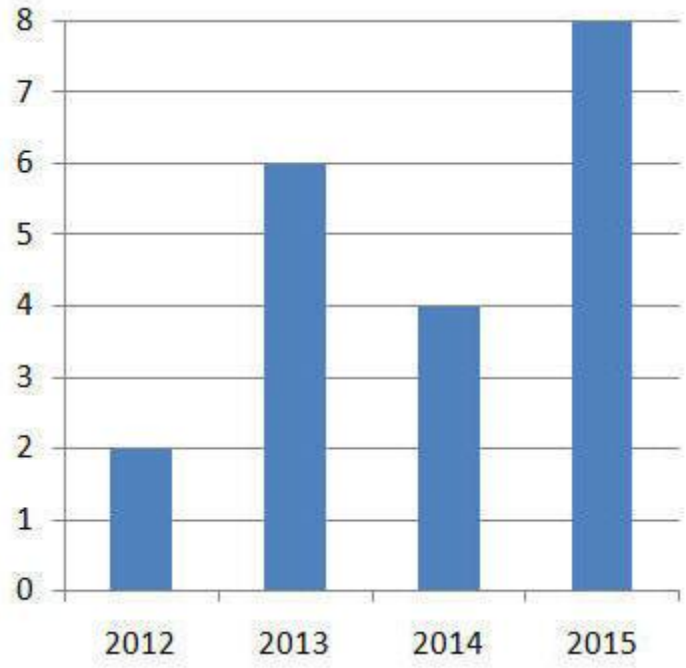


**What was the total sales revenue in 2015 (in million $)?**

a. 2
b. 4
c. 8
d. 6

**Q16. Kiran swims in a 90 m long pool. He covers 360 m in two minutes by swimming from one end to the other and back along the same straight path, twice. Find the average velocity of Kiran.**

a. 4 $ms^{-1}$
b. 5 $ms^{-1}$
c. 3 $ms^{-1}$
d. 0 $ms^{-1}$

**Q17. If $7^2 = 49$ ; $67^2 = 4489$ ; then $667^2$ = .....**

a. 448844
b. 444088
c. 444888
d. 444889

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## Q18. The value of two angles of a quadrilateral is 65° each. The other two angles are also equal. Find out the value of these angles.

a. 125°
b. 115°
c. 105°
d. 100°

## Q19. The time duration that would elapse between 12:37 p.m of 11th April 2019 and 12:29 p.m. of 12th April 2020 is

a. 366 days 23 hours 52 mins
b. 367 days 8 mins
c. 365 days 23 hours 52 mins
d. 366 days 8 mins

## Q20. £1475 was invested for 5 years @ 4 % simple interest per annum. The interest accrued would be £ .....

a. 295
b. 442.5
c. 590
d. 147.5

## Q21. Reema bought a car fort Rs.75,000 and spent Rs.10,000 on its repairs. She sold this car to Chin, at a profit of 15%. Chiru sold it to Ritu at a profit of 10%. What did Ritu pay for the car?

a. Rs. 1,02,575
b. Rs. 1,02,252
c. Rs. 1,07,525
d. Rs. 1,05,752

## Q22. A tank has three pipes. The first one fills up the tank in 30 min and the second one can fill it up in 45 min. The third one drains out the tank. With all the pipes open it takes 27

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RRB Group D

Railway Recruitment Board

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**min to fill up the tank. Find out how long it takes the third pipe alone to empty a full tank?**

a. 56 min
b. 50 min
c. 52 min
d. 54 min

**Q23. A train leaves from a station and moves at 40 km/hr. After 2 hours, another train leaves from the same station and moves in the same direction at a certain speed. the second train catches up with the first train in 4 hours, what is the speed of the second train?**

a. 55 km/hr
b. 50 km/hr
c. 60 km/hr
d. 65 km/hr

**Q24. Sham's marks are 25% more than that of Divya's. What percent is Divya's marks less than that of Sham's?**

a. 10%
b. 40%
c. 20%
d. 15%

**Q25. Which of the following numbers is divisible by 9?**

a. 58556
b. 56112
c. 49653
d. 89445

**Answer:-**

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

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