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Railway Group D Expected Questions – Mathematics 2018

QUESTION 1

If $243 = 3^x$, then $x = ?$

- a) 9 b) 4
c) 5 d) 7

QUESTION 2

Two pipes can fill a tank in 12 hours and 24 hours respectively. The pipes are opened simultaneously, and it is found that due to leakage in the both pipes it took 2 hours more to fill the tank. When the tank is completely full, in what time will the leak empty it?

- a) 34 hours b) 36 hours
c) 38 hours d) 40 hours

QUESTION 3

A series is given, with one term missing. Choose the correct alternative from the given ones that will complete the series 484, 1024, 1764, 2704?

- a) 3456 b) 3844
c) 4223 d) 3988

QUESTION 4

An oven when sold for Rs. 16,756, the profit earned is 18%. What is the cost price of the Oven?

- a) Rs. 14,200 b) Rs. 14,400
c) Rs. 15,200 d) Rs. 14,800

QUESTION 5

A sum of Rs. 625.25 was lent out at simple interest and at the end of 2 year 8 months the total amount was Rs. 725.29. Find the rate of interest per annum.

- a) 5.5% b) 7%

- c) 6% d) 9%

QUESTION 6

The ratio between two numbers is 2: 3. If each number is increased by 4, the ratio between them becomes 5: 7. The difference between the numbers is

- a) 8 b) 6
c) 4 d) 2

QUESTION 7

What should come in place of the question mark '?' in the following question?

$$287 \times 57 + 241 = 25 \times ?$$

- a) 664 b) 660
c) 668 d) 604

QUESTION 8

Value of the expression $9 - \{16 \div 5 - (8 \div (7 - 2))\}$ is

- a) 2.6 b) 3.5
c) 6.8 d) 7.4

QUESTION 9

If $y \cos 60^\circ = x \sin 45^\circ$, then $\frac{y^4}{x^4}$ is equal to

- a) 4 b) 1/4
c) 4/9 d) 9/4

QUESTION 10

One-eighth of a number is 18.75. What will 73% of the number be?

- a) 109.50 b) 138.00
c) 96.42 d) 82.66

QUESTION 11

The product of two numbers is 4107. If the HCF of the numbers is 37, the greater number is



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- a) 185
- b) 111
- c) 107
- d) 101

QUESTION 12

A cycle wheel makes 1000 revolution in moving 880 m. What is the diameter of the wheel? (Take $\pi = 22/7$)

- a) 7cm
- b) 14cm
- c) 28cm
- d) 21cm

QUESTION 13

Each side of a rectangular field is diminished by 20%. By how much % the area of the rectangular field will diminish?

- a) 20%
- b) 36%
- c) 25%
- d) 42%

QUESTION 14

What should come in place of the question mark '?' in the following number series?

499, 622, 868, 1237, 1729, 2344, ?

- a) 3205
- b) 3082
- c) 2959
- d) 3462

QUESTION 15

If $3\frac{4}{5}$ is subtracted from $6\frac{3}{5}$ and the difference is multiplied by 355 then what will be the final number?

- a) 1004
- b) 884
- c) 774
- d) 994

QUESTION 16

Which is the largest fraction?

- a) $3/4$
- b) $7/9$
- c) $7/8$
- d) $9/10$

QUESTION 17

If $1/\sqrt{1 - \cos 2A} = x$, then the value of x is?

- a) $\sec A$
- b) $\sin A$
- c) $\cot A$
- d) $\operatorname{cosec} A$

QUESTION 18

Simplify: $\frac{6}{11} \times \frac{11}{6} \div \frac{33}{12} + \frac{4}{3} - \frac{3}{2} \times \frac{8}{9}$

- a) $8/3$
- b) $13/11$
- c) $3/7$
- d) $4/11$

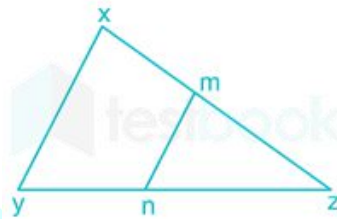
QUESTION 19

If $x = 16$ then what is the value of $\sqrt{x} + \frac{1}{\sqrt{x}}$?

- a) 4
- b) 4.5
- c) 4.25
- d) $2\sqrt{8}$

QUESTION 20

The line segment MN is parallel to side XY of $\triangle XYZ$ and it divides the triangle in 2 parts of equal areas. The ratio NZ/YZ is?



- a) 2:1
- b) $\sqrt{2}:1$
- c) 1:2
- d) $1:\sqrt{2}$



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