

* Choose the right answer from the given options. [1 Marks Each]

[10]

* Answer the following short questions. [2 Marks Each]

[6]

11. Find three different irrational numbers between the rational numbers $\frac{5}{9}$ and $\frac{9}{11}$.

12. Simplify:

$$\left(\frac{\frac{1}{15}}{\frac{3}{9}} \right)^{-6}$$

13. Prove that:

$$\sqrt{x^{-1}y} \times \sqrt{y^{-1}z} \times \sqrt{z^{-1}x} = 1.$$

* Answer the following questions. [3 Marks Each]

14. Locate $\sqrt{2}$ on the number line.

15. Express the following decimals in the form $\frac{p}{q}$, where p, q are integers and $q \neq 0$.

0.2̄35

16. Simplify:

1 2 3

13. Prove that:

$$\left(\frac{15}{9} \frac{3}{4}\right)^{-6}$$

13 Prove that:

$$\sqrt{x^{-1}y} \times \sqrt{y^{-1}z} \times \sqrt{z^{-1}x} = 1.$$

* Answer the following questions. [3 Marks Each]

[9]

14. Locate $\sqrt{2}$ on the number line.

15. Express the following decimals in the form $\frac{p}{q}$, where p, q are integers and q \neq 0.
0.235

16. Simplify:

1 2 3