

**NOTIFICATION NO.06/2019, FOREST SECTION OFFICER**

**MATHEMATICS**

**REVISED KEY**

07. A person incurs 20% loss by selling an article for ₹ 430. At what price must he sell to earn 20% profit?

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17. Which of the following is a rational number?

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39. The number of real solutions of the equation

$$X \frac{3}{x^2-9} = 3 - \frac{3}{x^2-9} \text{ is:}$$

**1**

42. If m, n are roots of the equation  $x^2-3x+p=0$  and  $m^3+n^3 = 81$  then p is equal to

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46. The value of  $\cos \frac{2\pi}{6} + \operatorname{cosec} \frac{\pi}{6} + 3 \tan \frac{2\pi}{6}$  is

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90. The mean weight of students of a class is 38 kg. The average weight of boys and girls are respectively 42 kg and 33 kg. If number of boys is 25, then the number of girls is:

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