

SECTION A

Section - A consists of Multiple Choice type questions of 1 mark each.

1. The ratio of *HCF* to *LCM* of the least composite number and the least prime number is :

- (a) 1:2
- (b) 2: 1
- (c) 1: 1
- (d) 1: 3

Answer: (a)

Explanation:

The least composite number is 4, which has prime factors 2 and 2. The least prime number is 2.

The HCF (Highest Common Factor) of 4 and 2 is 2, because that is the largest number that divides both 4 and 2.

The LCM (Least Common Multiple) of 4 and 2 is 4, because that is the smallest number that is a multiple of both 4 and 2.

Therefore, the ratio of HCF to LCM of 4 and 2 is 2:4 or 1:2.

So the answer is (a) 1:2.

2. The roots of the equation $x^2 + 3x - 10 = 0$ are :

- (a) 2, - 5
- (b) - 2, 5
- (c) 2, 5
- (d) - 2, - 5

Answer: (a)

Explanation:

$$\text{Given, } x^2 + 3x - 10 = 0$$

$$x^2 + 5x - 2x - 10 = 0$$

$$x(x + 5) - 2(x + 5) = 0$$

$$(x + 5)(x - 2) = 0$$

$x = 2, - 5$ are the roots of the given equation.

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web this type of positive feedback is also called hysteresis and provides a fast transition from the on to off state once turning off starts the off delay timing is mostly a function of c1 and r6 the exact delay is a bit hard to predict because it depends on

the gain of the transistors particularly of q1

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