

Q1. Which of the following is an irrational number ?

- (a)  $\sqrt{20}/\sqrt{5}$       (b)  $\sqrt{4}/9$       (c)  $\sqrt{36}$       (d)  $\sqrt{5}$

**Correct answer :- (d)**

Q2. If a and b are two coprime numbers then , then  $a^3$  and  $b^3$  are

- (a) coprime      (b) not coprime      (c) even      (d) odd

**Correct answer :- (a)**

Q3. The exponent of 5 in the prime factorisation of 3750 is

- (a) 3      (b) 4      (c) 5      (d) 6

**Correct answer :- (b)**

Q4. HCF of 92 and 152 is

- (a) 4      (b) 19      (c) 23      (d) 57

**Correct answer :- (a)**

Q5. The (HCF x LCM) for the numbers 50 and 20 is

- (a) 1000      (b) 50      (c) 100      (d) 500

**Correct answer :- (a)**

Q6.  $2\sqrt{3}$  is

- (a) an integer      (b) a rational number      (c) an irrational number      (d) a whole number

**Correct answer :- (c)**

Q7. If  $a^2 = \frac{23}{25}$  then a is

- (a) rational      (b) irrational      (c) whole number      (d) integer

**Correct answer :- (b)**

Q8. For which natural number n ,  $6^n$  ends with digit zero ?

- (a) 6      (b) 5      (c) 0      (d) None of these

**Correct answer :- (d)**

Q9. The HCF of two numbers is 18 and their product is 12960 , their LCM will be

- (a) 420      (b) 600      (c) 720      (d) 800

**Correct answer :- (c)**

Q10. The HCF of smallest prime number and the smallest composite number is

- (a) 2      (b) 3      (c) 6      (d)

**Correct answer :- (a)**

