

**REAL NUMBER**

**HOT QUESTIONS**

- 1) The HCF and LCM of two numbers are 9 and 90 respectively. If one number is 18, then the other number is. Ans-45
  
- 2) If 0.2316 is expressed in the form  $\frac{p}{2^n \times 5^m}$  for the smallest values of whole numbers  $n$  and  $m$ . Write these values of  $n$  and  $m$ . Ans-  $n=2, m=4$
  
- 3) Show that  $17 \times 31 \times 41 + 41$  is a composite number.
  
- 4) Show that  $31 + \sqrt{5}$  is an irrational number.
  
- 5) Find the LCM of smallest two-digit composite number and smallest composite number. Ans- 20
  
- 6) Explain whether the number  $3 \times 5 \times 13 \times 46 + 23$  is a prime number or a composite number.
  
- 7) Show that  $(\sqrt{3} + \sqrt{5})^2$  is an irrational number.
  
- 8) If HCF of 144 and 180 is expressed in the form  $13m - 3$ , find the value of  $m$ . Ans-3
  
- 9) Show that reciprocal of  $3 + 2\sqrt{2}$  is an irrational number.
  
- 10) Using Euclid's division algorithm, find whether the pair of numbers 847, 2160 are coprimes or not.