

SUB-MATHEMATICS  
WORKSHEET-3  
Real Numbers

- 1) Find the HCF of 125, 1225 by prime factorization method.
- 2) Prove that  $\sqrt{17}$  is an irrational number.
- 3)  $\sqrt{2}$  and  $\sqrt{8}$  both are irrational number then their product is a
  - a) rational number
  - b) irrational number
  - c) any of 'b' & 'a'
  - d) none.
- 4) Sum of two irrational number
  - a) always irrational number
  - b) always rational number
  - c) may be rational or irrational
  - d) none.
- 5) ' $\pi$ ' is a
  - a) rational number
  - b) irrational number
  - c) decimal number
  - d) none.
- 6) State fundamental theorem of Arithmetic.
- 7) Use Euclid's division algorithm to find HCF of 510 and 92.
- 8) Use Euclid's division lemma to show that the cube of any positive integer is of the form  $9p$ ,  $9p+1$  or  $9p+8$