

## NUMBER SYSTEM

1. The value of  $\sqrt[3]{\sqrt{0.000064}}$  is
- a. 0.02                      b. 0.2                      c. 2.0                      d. none
2. Taking  $\sqrt{2} = 1.414$ ,  $\sqrt{3} = 1.732$ ,  $\sqrt{5} = 2.236$  and  $\sqrt{6} = 2.449$ , then the value of  $\frac{9+\sqrt{2}}{\sqrt{5}+\sqrt{3}} + \frac{9-\sqrt{2}}{\sqrt{5}-\sqrt{3}}$  to three decimal places is
- a. 9.2321                      b. 13.716  
c. 10.723                      d. 15.892
3. The value of  $(1+0.1+0.11+0.111)$  is
- a. 1.321                      b. 1.211  
c. 1.111                      d. 1.331
4. When a number is divided by 5, it gives remainder 3. What is the remainder when square of that number is divided by 5?
- a. 9                      b. 3  
c. 4                      d. 1
5. Find the value of  $(2744)^{1/3}$ :
- a. 24                      b. 14  
c. 34                      d. 16
6.  $2^{2n-1} = 1/8^{n-3}$ , then the value of n is:
- a. 3                      b. 2  
c. 0                      d. -2
7. What is the largest possible length of a scale that can be used to measure exactly the lengths 3m, 5m 10cm and 12m 90 cm?
- a. 10cm                      b. 20 cm  
c. 25 cm                      d. 30 cm
8. After measuring 120 m of a rope, it was discovered that the metre rod was 3 cm longer. The true length of the rope measured is
- a. 116m 40cm              b. 121m 20cm              c. 123 m              d. 123m 60cm



