Learning Unit 02: Basic Questions

Study Questions

1. What will be the compound interest for the sum of Rs. 3000 after 2 years at the rate of 10% p.a.?
   a) Rs. 660
   b) Rs. 600
   c) Rs. 620
   d) Rs. 630

2. Mari invested Rs 10000 in a bank for 3 years at an interest of 20% p.a. compounded annually. What is the compound interest that Mari gets after 3 years?
   a) Rs. 8280
   b) Rs. 7200
   c) Rs. 7000
   d) Rs. 7280

3. In how many years Rs. 8000 becomes Rs. 10648 at 10% p.a. the compound interest calculated annually?
   a) 5 years
   b) 4 years
   c) 3 years
   d) 2 years

4. At what rate percent per annum of the compound interest will Rs. 1000 amounts to Rs. 1440 in 2 years?
   a) 5%
   b) 10%
   c) 15%
   d) 20%

5. What will be the compound interest for the sum of Rs. 45000 after 2 years at the rate of 15% p.a.?
   a) Rs. 14512.5
   b) Rs. 14000.5
   c) Rs. 12232.5
   d) Rs. 11564.5

Study Explanations

1. d)
   n = 2, r = 10%, p = 3000
   CI = 2(300) + 1(30)
   CI = 630

2. d)
   n = 3, r = 20%, p = 10000
   CI = 3(2000) + 3(400) + 1(80)
   CI = 7280

3. c)
   Amount $= P\left[1+\frac{r}{100}\right]^n$
   $10648 = 8000\left[1+\frac{10}{100}\right]^n$
   n = 3 years

4. d)
   $1440 = 1000\left[1+\frac{r}{100}\right]^2$
   r = 20%

5. a)
   n = 2, r = 15%, p = 45000
   CI = 2(6750) + 3(1012.5)
   CI = 14512.5