VIVEK TUTORIALS

Mathematics
Preliminary Examination
Max Marks: 40

Date : 08/Nov/2019 **Grade: 9th (ICSE)** **Time: 1Hrs**
4.1 4.2 2.1 3.1

Question

1. Calculate the compound interest accrued on Rs. 6,000 in 3 years, compounded yearly. If the rates for the successive years are 5%, 8% and 10% respectively 3
2. Find the amount and the compound interest on Rs. 12,000 in 3 years at 5% ; interest being compounded annually. 3
3. What principal will amount to Rs. 9,856 in two years, if the rates of interest for successive years are 10% and 12% respectively. 3
4. Find the time, in years, in which Rs. 4,000 will produce Rs. 630.50 as compound interest at 5 per cent p.a. interest being compounded annually. 3

Question

5. A borrowed Rs. 2,500 from B at 12% per annum compound interest. After 2 years, A gave Rs. 2,936 an a watch to B to clear the account. Find the cost of the watch. 4
6. How much will Rs. 50,000 amount to in 3 years, compounded yearly, if the rates for the successive years are 6%, 8% and 10% respectively. 4
7. Meenal lends Rs. 75,000 at C.I for 3 years. If the rate of interest for first two years is 15 % per year and the third year it is 16%, calculate the sum Meenal will get at the end of third year. 4
8. Find the compound interest on Rs. 4,000 accured in three years, when the rate of interest is 8% for the first year and 10% per year for the second and the third years. 4

Question

9. A person invests Rs. 5,000 for three years at a certain rate of interest compounded annually. At the end of two years this sum amounts to Rs. 6,272. Calculate: (i) the rate of interest per annum. (ii) the amount at the end of third year. 6
10. Use identities to evaluate : 6
    (i) $(101)^2$ (ii) $(502)^2$

-------- All the Best --------