

# ST. THOMAS SCHOOL, DHURWA, RANCHI

## ONLINE HOME WORK 1

### (COMPOUND INTEREST WITHOUT USING FORMULA)

SUB :- Maths

Class :- IX

- Q1) Calculate the compound interest due in  $2\frac{1}{2}$  years on Rs 6000 at 10 percent compounded annually.
- Q2) Govind borrows Rs 18000 at 10 percent simple interest. He immediately invests the money borrowed at 10 % compound interest compounded half yearly. How much money does Govind earn in one year?
- Q3) A sum of money is lent at 8 % per annum compound interest. If the interest for the second year exceeds that for the first year by Rs 96, find the sum of money.
- Q4) A man borrows Rs 10000 at 5 % per annum compound interest. He repays 35% of the sum borrowed at the end of the first year and 42 % of the sum borrowed at the end of the second year. How much must he pay at the end of the third year in order to clear the debt.
- Q5) The compound interest, calculated yearly, on a certain sum of money for the second year is Rs 1089 and for the third year is Rs 1197.90. Calculate the rate of interest and the sum of money.
- Q6) The cost of a machine depreciated by Rs 4000 during the first year and by Rs 3600 during the second year. Calculate:
- 1) The rate of depreciation
  - 2) The original cost of the machine
  - 3) Its cost at the end of the third year
- Q7) Find the sum invested at 10% compounded annually, on which the interest for third year exceeds the interest for the first year by Rs 252.
- Q8) A man borrows Rs 10000 at 10% compound interest compounded yearly at the end of each year, he pays back 20% of the amount for that year. how much money is left unpaid just after the second year.
- Q9) Find the sum on which the difference between the simple interest and compound interest at the rate of 8 % per annum compounded annually by Rs 64 in 2 years.
- Q10) On a certain sum of money lent out at C.I interests for first , second , third year are Rs 1500, Rs 1725 and Rs 2070 respectively Find the rate of interest for the (i) second year (ii) third year.
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