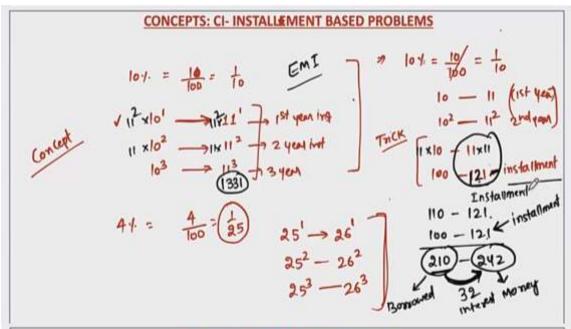
# **Compound Interest-instalment**



# CI- INSTALLEMENT BASED PROBLEMS

Q1. A sum of Rs 2100 s to be paid back in 2 equal installments. How much is each installments of the interest is compounded annually at 10% per annum?

a. Rs.1210 b. Rs.1240 c. Rs.1230 d. Rs.1220

$$\begin{bmatrix}
10 & -11 & 11 \times 10 & -11 \times 11 \\
10^{2} & -11^{2} & 100 & -121
\end{bmatrix}$$

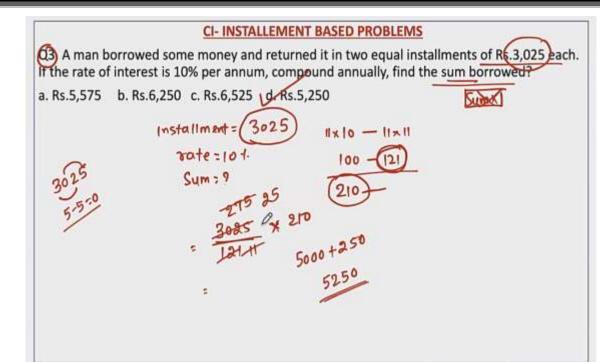
$$= \frac{2100}{210} \times 121 = \frac{110 - 121}{100 - 121}$$

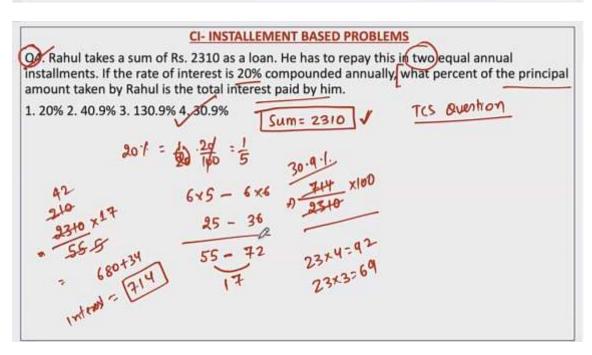
$$= \frac{1210}{210} = \frac{210}{210} - \frac{210}{210}$$
Ammount bossowed

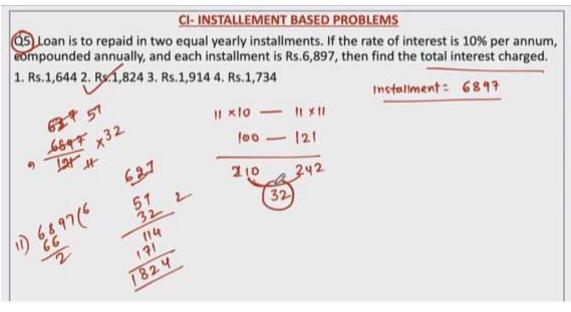
#### CI- INSTALLEMENT BASED PROBLEMS

Q2) A sum of Rs. 4,620 is to be paid back in 2 equal installments. How much is each installment(in Rs). If the interest rate is compounded annually at 10% per annum?

a. Bs.2,662 b. Rs.2,420 c. Rs.2,552 d. Rs.2,750

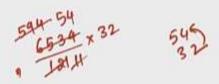








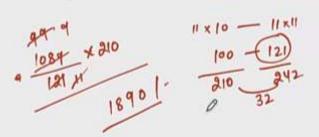
- 6 Loan is to repaid in two equal yearly installments. If the rate of interest is 10% per annum, compounded annually, and each installment is Rs.6,534, then find the total interest charged.
- 1. Bs.1,728 2. Rs.1,867 3. Rs.1,642 4. Rs.1,579



11) 5534 89

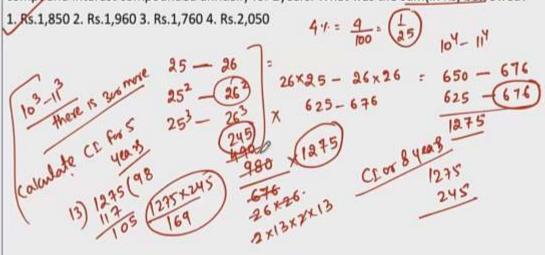
### **CI- INSTALLEMENT BASED PROBLEMS**

- Q7 A man borrowed money and paid back in two equal installments of Rs.1,089, at 10% compound interest compounded annually for 2years. What was the sum(in Rs) borrowed?,
- 1. Rs.1,890 2. Rs.2,178 3. Rs.1,800 4. Rs.2,090



#### CI- INSTALLEMENT BASED PROBLEMS

A man borrowed money and paid back in two equal installments of Rs.9,80, a 4% compound interest compounded annually for 2years. What was the sum(in Rs) borrowed?



#### CI- INSTALLEMENT BASED PROBLEMS

(29) A sum of Rs. X was borrowed and paid back in two equal yearly installements, each of Rs.35,280. If the rate of interest was 5%, compounded annually, then the value of x is.

1. Rs.64,400 2. Rs.65,600 3. Rs.64,800 4. Rs.65,400

$$51 = \frac{1}{20}$$
 $20 - 21 20 \times 20 - 21 \times 10^{-2}$ 

3. Rs.64,800 4. Rs.65,400
$$51 = \frac{1}{20}$$

$$20 - 21 24 \times 20 - 21 \times 21$$

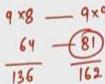
$$20^{2} - 21^{2} 400 - 441$$

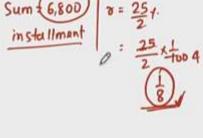
$$20 - 21 \times 21 \times 20$$

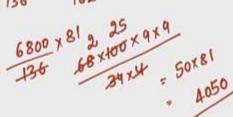
# CI- INSTALLEMENT BASED PROBLEMS

Q10. Neeraj took Rs.6,800 as a loan which along with interest is to be repaid in two equal annual installments. If the rate of interest is 12 1/2% compounded annually, then the value of each of the installements is.

1. Rs.8,100 2. Rs.4,150. Rs.4,050 4. Rs.4,000







#### CI- INSTALLEMENT BASED PROBLEMS

Q11. A loan of Rs.8,925 is to be paid back in two equal half-yearly installments. How much is each installment if the interest is compounded half-yearly at 8% per annum?

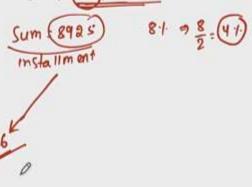
1. Rs.4,372 2. Rs.4,732. Rs.4,654 4. Rs.4,564

$$936 \times 25 - 26 \times 26$$

$$(25 - 676)$$

$$(275)$$

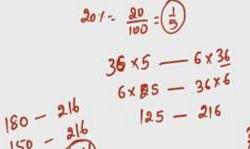
$$8925 \times 676$$

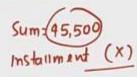


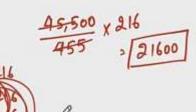
#### CI- INSTALLEMENT BASED PROBLEMS

A sum of Rs.45,500 is to be paid back in <u>3 equal annual</u> installments. How much is each installments if the interest is compounded annually at 20% per annum?

1. Rs.21,600 2. Rs.21,700 Rs.21,800 4. Rs.21,900







## **CI- INSTALLEMENT BASED PROBLEMS**

Q13. A sum of Rs.25,220 is to be paid back in 3 equal annual installments. How much is each installments if the interest is compounded annually at 5% per annum?

1. Rs.9361 2. Rs.9261 Rs.9621 4. Rs.9216