

STANDARD 8TH: CHAPTER 14 Compound Interest

Q.1. Choose the correct alternative

- 1. A fireman invests \$40,000 in a retirement account for 2 years. The interest rate is 6%. The interest is compounded monthly. What will his final balance be?
 - a. 45086.39.
 - b. 45088.40
 - c. 45600.50
 - d. 45678.00
- 2. Calculate the amount of this investment after 5 years with interest compounded yearly.
 - a. 3659.96
 - b. 3249.98
 - c. 3659.96
 - d. 3649.96
- 3. If the rate is 16(2/3) % =16 and the principal is 216, then calculate the CI for 2 years
 - a. 79
 - b. 76
 - c. 78
 - d. 73
- 4. If Rs 1200 is invested at a compound interest rate 8% per annum compounded quarterly for 12 months, find the compound interest.
 - a. 98.56
 - b. 98.91
 - c. 96.78
 - d. 94.93

- 5. A invested Rs. 3000 on compound interest at a rate of interest 10% for 2 years and B invested Rs. 3200 on compound interest at a rate of interest 15% for 3 years. Find total C.I. (compounded annually).
 - a. 2296.8
 - b. 2398
 - c. 2400
 - d. 2345.60
- 6. Find the compound interest on \$5000 for 3 years at 8% per annum, compounded annually.
 - a. 1298.56
 - b. 1398.56
 - c. 1456.60
 - d. 1253.30
- 7. Find the compound interest on \$25000 for 3 years at 6% per annum, compounded annually.
 - a. 4675.40
 - b. 4765.30
 - c. 4775.40
 - d. 4367.40
- 8. A sum of money is put on CI for 2 years at 20%. It would fetch Rs 482 more if the interest is payable half yearly than if it were payable yearly. Find the sum.
 - a. 30000
 - b. 40000
 - c. 80000
 - d. 20000
- 9. The CI on a sum of Rs 625 in 2 years is Rs 51. Find the rate of interest.
 - a. 5%
 - b. 4%
 - c. 3%
 - d. 6%

- 10. Manish invested a sum of money at Cl. It amounted to Rs 2420 in 2 years and Rs 2662 in 3 years. Find the rate percent per annum.
 - a. 10%
 - b. 20%
 - c. 9%
 - d. 15%

Q.2 Solve the following.

1. The compound interest on rs.30000 at 7% per annum is Rs.4347. Find period?

(The population of a town decreased every year due to migration, poverty and unemployment. The present population of the town is 6,31,680. Last year the migration was 4%, and the year before last, it was 6%. What was the population two years ago?

- 2. On a sum of \$ 15000 for 2 years, if the difference between compound interest and simple interest is \$ 96. Find the rate of interest per cent per annum.
- 3. If the simple interest on a sum of money at 5% per annum for 3 years is \$ 1200, then the compound interest on the same sum for the same period at the same rate will be
- 4. Calculate the compound interest for the second and third year on \$ 20,000 invested for 4 years at 10% p.a.
 (Ans: Therefore, compound interest for the second and third year on \$ 20,000 invested for 4 years at 10% p.a. are \$ 2,200 and \$ 2,420 respectively.)
- Vijay borrowed \$ 5,000 and agreed to pay interest at the rate of 10%
 , 12%, and 14% for the first, second and third year respectively. Find the total amount he had to pay after 3 years.
- 6. Sandy borrowed \$ 40960 from a bank to buy a piece of land. If the bank charges $12^{1}/_{2}$ % per annum, compounded half-yearly, what

amount will she have to pay after $1^{1}/_{2}$ years? Also find the interest paid by her.

- 7. Find the amount and the compound interest on Rs. 1,00,000 compounded quarterly for 9 months at the rate of 4% per annum?
- 8. A man deposited \$1000 in a bank. In return he got \$1331. Bank gave interest 10% per annum. How long did he kept the money in the bank?
- A house is valued at £150,000. On average, the house price increases by 0.24% per month over a period of 2.5 years compound interest. What is the value of the house after this time?