MATHEMATICS

SpeedLabs
Assisted Practice | Expert Guidance | Personalized Insights
An Innovative Learning Methodology by IITians.

| Class – 09 | Topic – Compound Interest |

Section A (2 Marks)

1. What will be the compound interest on a sum of Rs. 40,000 after 3 years at the rate of 11 percentage compound per annum? [14705.24]

2. At what rate of compound interest per annum will a sum of Rs. 1400 become Rs. 1573.04 in 2 years? [6%]

3. Arun invested an amount of Rs. 20000 in a fixed deposit scheme for 2 years at compound interest rate 4 percentage compound per annum. How much amount will Arun get on maturity of the fixed deposit? [21632]

4. The Simple interest on a certain sum for 2 years at 20% per annum is Rs. 80. The corresponding compound interest is [Rs 88]

5. The Compound interest on Rs. 20,480 at $6\frac{1}{4}$ % per annum for 2 years 73 days, is: [Rs 2929]

6. A sum amounts to Rs. 882 in 2 years at 5% compound interest. The sum is [Rs 800]

Section B (3 marks)

7. The population of a town is 40,000. It decreases by 20 per thousand per year. Find out the population after 2 years. [38416]

8. The compound interest on Rs. 30,000 at 7% per annum is Rs. 4347. The period (in years) is: [2]

9. The difference between simple and compound interests compounded annually on a certain sum of money for 2 years at 4% per annum is Re. 1. The sum is: [625]

10. The difference between compound interest and simple interest on an amount of Rs. 15,000 for 2 years is Rs. 96. What is the rate of interest per annum? [8%]

11. If the simple interest on a sum of money for 2 years at 5% per annum is Rs. 60, what is the compound interest on the same at the same rate and for the same time? [61.5]

12. The difference between simple interest and compound on Rs. 900 for one year at 10% per annum reckoned half-yearly is: [2.25]

13. The least number of complete years in which a sum of money put out at 20% compound interest will be more than doubled is [4]

MATHEMATICS

SpeedLabs
Assisted Practice | Expert Guidance | Personalized Insights
An Innovative Learning Methodology by IITians.

14. Simple interest on a certain sum of money for 4 years at 5% per annum is half the compound interest on Rs. 3000 for 2 years at 10% per annum. The sum placed on simple interest is: [Rs1575]

15. A sum put out at 4% compound interest payable half-yearly amounts to Rs. 13265.10 in $1\frac{1}{2}$ year. The sum is [Rs 12500]

16. What sum invested for 2 years at 14% compounded annually will grow to Rs. 5458.32? [4200]

17. If the difference between the simple interest and compound interests on some principal amount at 20% for 3 years is Rs. 48, then the principal amount is [Rs 375]

Section C (4 marks)

18. What is the difference between the compound interests on Rs. 5000 for 5.5 years at 4% per annum compounded yearly and half-yearly? [2.04]

19. A bank offers 5% compound interest calculated on half-yearly basis. A customer deposits Rs. 1600 each on 1st January and 1st July of a year. At the end of the year, the amount he would have gained by way of interest is: [121]

20. There is 80% increase in an amount in 8 years at simple interest. What will be the compound interest of Rs. 14,000 after 3 years at the same rate? [4634]

21. The compound interest on a certain sum for 2 years at 10% per annum is Rs. 525. The simple interest on the same sum for double the time at half the rate percent per annum is: [Rs 500]

22. The difference between simple interest and compound on Rs. 2400 for one year at 10% per annum reckoned half-yearly is: [Rs 6]

23. A sum of money is borrowed and paid back in two annual installments of Rs. 882 each allowing 5% compound interest. The sum borrowed was: [Rs 1640]

24. Andrews earns an interest of Rs. 1596 for the third year and Rs. 1400 for the second year on the same sum. Find the rate of interest if it is lent at compound interest. [14%]