SIMPLE AND COMPOUND INTEREST PROBLEMS WITH SOLUTIONS
SIMPLE INTEREST & COMPOUND INTEREST:-

Simple Interest is one of the Easiest but tricky topic in Aptitude. Problems in this topic needs more focus on Percentage. This PDF is provided to make you “The master of the Topic”. This PDF of Simple Interest is helpful for your Competitive Exams like IBPS PO, RRB, Clerk, SBI PO, CAT.

Very competitive exam question paper will contain questions from simple interest and compound interest. You have learned Simple Interest and Compound in your high school. Any one can solve simple interest and compound interest questions that are asked in competitive exams using two basic formulas of S.I and C.I. But for better time management during the examination you should be thorough with Simple Interest and Compound

50 important question Simple Interest and Compound:-

1. The simple interest obtained when a sum of money is invested for 4 years at 18% per annum is Rs. 427 more than the simple interest for 2 years at 22% per annum. What is the amount obtained when the same sum of money is invested for 4 years at 20% per annum?
   (a) Rs. 122000 (b) Rs. 122200 (c) Rs. 112200 (d) Rs. 10000 (e) NOT

2. John invests certain sum for 2 years in scheme A offering compound interest of 20% per annum. He also invests less than previous by Rs. 1600 in scheme B for 3 years offering simple interest at 10% per annum. The interest received from scheme A was twice the interest received from scheme B. What is the sum of money invested by John in scheme B?
   (a) Rs. 3400 (b) Rs. 7800 (c) Rs. 4400 (d) Rs. 8400 (e) NOT

3. The simple interest @ 6% per annum received on a principal of Rs. X was Rs. 482.40 when invested for 3 years in scheme A. If the scheme B offered compound interest at 10% per annum compounded annually, what was the interest received by investing Rs. X-680 for 2 years in scheme B?
   (a) Rs. 280 (b) Rs. 890 (c) Rs. 840 (d) Rs. 210 (e) Rs. 420

4. An equal amount of sum is invested in scheme M and scheme N. Both the schemes offer simple interest at the rate of 12% and 9% respectively. If at the end of two years the total amount received from both the schemes together was Rs. 19360, what is the amount received by investing in scheme M?
5. An interest of Rs. 8384 is received when a certain sum of money is invested in scheme X for 4 years which offers interest of 8% per annum. When the same money is invested in scheme Y amount received is Rs. 39562, what is the rate of interest offered by scheme Y?
(a) 11⅓% (b) 12⅔% (c) 11% (d) 15% (e) 16½%

6. A sum of money was invested for 5 years in a scheme which offers simple interest at a rate of 12% per annum. The amount received after 5 years was reinvested in the same scheme for 10 years. If the amount received after reinvesting for the same period is Rs. 782 more than initial sum of money, what was the initial sum of money invested in the scheme?
(a) Rs. 190 (b) Rs. 750 (c) Rs. 20 (d) Rs. 850 (e) NOT

7. The compound interest accrued on an amount of Rs. 22000 at the end of two years is Rs. 5596.8. What would be the simple interest accrued on the same amount at the same rate in the same period?
(a) Rs.5280 (b) Rs. 6280 (c) Rs. 7820 (d) Rs. 5820 (e) Rs. 3280

8. The simple interest obtained on an amount of Rs. 45000 at the end of 4 years is Rs. 15300. What would be the approximate interest obtained on the same amount at half the initial rate and double the initial period if compounded quarterly?
(a) Rs. 18000 (b) Rs. 17809 (c) Rs.18109 (d) data inadequate (e) NOT

9. Ravi invests an amount of Rs. 39300 for 4 years at the rate of 4% per annum. David invests Rs. 45000 at the same rate of interest for 5 years. What will be the interest they both together get by investing total amount at the rate of 6% per annum for 10 years compounded half yearly?
(a) Rs. 56020 (b) Rs. 80279 (c) Rs. 20400 (d) Rs. 70020 (e) NOT

10. Karan took a loan at simple interest rate of 6% in the first year with an increase of 0.5% in each subsequent year. She paid interest of Rs. 3375 after 4 years. How much loan did she take?
(a) Rs. 45000 (b) Rs. 40000 (c) Rs. 56000 (d) Rs. 62000 (e) NOT

11. Mr. John invested Rs. 10000 with the rate of interest 10% per annum. The interest was compounded half-yearly for the first one year and in the next year it was compounded annually. What will be the total interest earned at the end of two years?
(a) Rs. 3157.5 (b) Rs. 2127.5 (c) Rs. 1050 (d) Rs. 1905.5 (e) NOT

12. A loan is discharged in three equal installments of Rs. 133.10 each. If the rate of interest is 10%, find the amount of loan?
(a) Rs.100 (b) Rs. 331 (c) Rs. 1231 (d) Rs .1331 (e) Rs. 1431
13. A certain sum doubles in two years under compound interest at a certain rate of interest. In how many years would a sum becomes 16 times itself at the same rate of interest again under compound interest?
(a) 2 years (b) 6 years (c) 10 years (d) 15 years (e) NOT

14. Divide Rs. 3903 between A and B, so that A’s share at the end of 7 years may be equal to B’s share at the end of 9 years, compound interest being at 4%:
(a) Rs. 2300, Rs. 1303 (b) Rs. 1000, Rs. 2903 (c) Data inadequate (d) Rs. 2028, Rs. 1875 (e) NOT

15. Raj borrowed Rs. 20000 partly from a friend at 12% SI and remaining from a bank at 15% SI. At the end of 2 years, he paid back an amount of Rs. 25700. What is the amount borrowed from the bank?
(a) Rs. 10000 (b) Rs. 12000 (c) Rs. 16000 (d) Rs. 25000 (e) Rs. 15000

16. Ravi bought a car for Rs. 600000. He paid Rs. 100000 cash down and the rest at the end of 2 years at the rate of 15% SI. How much more did he pay?
(a) Rs. 150000 (b) Rs. 300000 (c) Rs. 200000 (d) Rs. 100500 (e) NOT

17. Which of the following is the best investment for Rs. 30000?
(a) 12% at SI for 4 years (b) 11% CI for 2 years (c) 15% SI for 2 years (d) either (a) or (b) (e) None of these

18. What are the least complete years in which a sum of money put at 20% compound interest will be more than doubled?
(a) 2 years (b) 3 years (c) 5 years (d) 4 years (e) NOT

19. If x, y and z are three sums of money such that y is the simple interest on z and z is the simple interest on x for same rate of interest and for same period, then the relation between x, y and z is?
(a) \( z = \frac{x}{y} \) (b) \( x^2 = z^2 y \) (c) \( x = z \) (d) \( y = z^2 x^2 \) (e) \( z^2 = x^2 y \)

20. Raj borrowed some money at the rate of 6% p.a. for the first three years, 9% p.a. for the next five years and 13% p.a. for the period beyond 8 years. If the total amount interest paid by him at the end of eleven years is Rs. 8160, how much money did he borrow?
(a) Rs.8000 (b) Rs. 7500 (c) Rs. 6500 (d) Rs. 8500 (e) Rs. 10000

21. A certain amount earns simple interest of Rs. 1120 after 8 years. Had the interest 3% more, how much more interest would it have earned?
(a) 3% (b) data inadequate (c) 5% (d) 5.6% (e) NOT

22. Mary borrowed Rs. 960 from John at 12% p.a. SI for 6 years. He then added some more money to the borrowed sum and lent it to Peter at 14% p.a. If Mary gains Rs. 200 in the whole transaction, how much money did he add from his side?
23. What interest will he had on Rs. 450 in 2 years, if an interest of Rs. 0.80 is charged on Rs. 2 for 4 years?
(a) Rs. 150 (b) Rs. 110 (c) Rs. 90 (d) Rs. 50 (e) Rs. 80

24. The simple interest accrued on a sum of money is Rs. 1200 in 4 years at the rate of 8%. what will be the compound interest on thrice that of the principal at the rate of 6% in 3 years?
(a) Rs. 3145.6 (b) Rs. 1340.8 (c) Rs. 1980.7 (d) Rs. 2148.93 (e) NOT

25. Abhishek invested Rs. 3000 into two parts in such a way that if one part be put at 5% SI and other at 6% the yearly income may be Rs. 180. How much did he invest at 6%?
(a) Rs. 1550 (b) Rs. 180 (c) Rs. 1200 (d) data inadequate (e) NOT