



Simple Interest and Compound Interest

- 1. The simple interest on a certain principal for a time period of 4 years at 8% p.a. is ₹1280. If the same principal is invested at 10% p.a. compound interest compounded annually, what will be the amount after 2 years?
 - **(A)** ₹4960
- **(B)** ₹4920
- **(C)** ₹4800
- **(D)** ₹4840
- (E) None of these
- 2. A sum of money at compound interest doubles itself in 4 years. In how many years will it be 32 times itself?
 - **(A)** 4 years
- **(B)** 8 years
- **(C)** 16 years
- **(D)** 20 years
- **(E)** 32 years
- 3. difference between simple compound interest on a sum of money for 2 years at 13% per annum is ₹169. The sum is?
 - **(A)** ₹9591
- **(B)** ₹11025
- **(C)** ₹9785
- m(**D**) ₹10000 t platform
- (E) Either (a) or (b)
- 4. Ghanshyam buys a second hand car for ₹70000. The value of the car depreciates at a rate of R% every year. If the car was sold at a price of ₹47068 after two years then, find the value of R.
 - (A) 22%
- **(B)** 14%
- **(C)** 18%
- **(D)** 16%
- **(E)** 24%
- 5. Surbhi lent a certain amount of money at 8% simple interest and after 10 years she received an interest amount of, ₹560 less than the amount she had lent. How much money did she lend?
 - **(A)** ₹7542
- **(B)** ₹6529
- **(C)** ₹2800
- **(D)** ₹5285
- **(E)** ₹3863
- 6. A sum of ₹10,000 is lent at compound interest of 10% per annum. If the amount is

- lent for two years then what will be the interest amount in 2nd year?
- **(A)** ₹1200
- **(B)** ₹900
- **(C)** ₹1100
- **(D)** ₹1500
- **(E)** ₹800
- 7. According to a new plan rolled out by HISP Bank, the rate of simple interest on a sum of money is 8% p.a. for the first two years, 10% p.a. for the next three years and 6% p.a. for the period beyond the first five years. Simple interest accrued on a sum for a period of eight years is ₹12,800. Find the sum.
 - **(A)** ₹24, 000
- **(B)** ₹16,000
- **(C)** ₹15, 000
- **(D)** ₹13,500
- **(E)** None of these
- ₹1500 is given at 12% SI while ₹(1500 + P) is given @ 20% CI. If the difference between both interests at the end of two years is ₹652. Find P.
 - **(A)** 780
- **(B)** 800
- Certifie (C) 790
- **(D)** 820
- **(E)** 850
- 9. ₹1800 is given at 20% per annum SI while ₹(1800 - P) is given at 30% per annum CI. If the difference between both interests at the end of two years is ₹315. Find P.
 - **(A)** ₹200
- **(B)** ₹300
- **(C)** ₹400
- **(D)** ₹100
- **(E)** None of these
- 10. ₹1750 is given at 14% SI per annum while ₹(1750 + P) is given @ 20% CI per annum. If the difference between both interests at the end of two years is ₹830. Find P.
 - **(A)** 1100
- **(B)** 1150
- **(C)** 1250
- **(D)** 1300
- **(E)** 1350



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- 11. A sum of ₹91,00 is borrowed at 20% per annum compounded annually. If the amount is to be paid in two years, the amount will be
 - **(A)** ₹131.040
- **(B)** ₹132.800.
- **(C)** ₹132,500
- **(D)** ₹142,300
- **(E)** None of these
- 12. A certain sum was invested by a person on SI at 5% per annum. After 6 months, he again made an investment of the same amount on SI at 6% p.a. After a certain period of time.the amount received from both the investments are equal which is ₹4600. Find the sum he has invested in each investment.
 - **(A)** ₹4200
- **(B)** ₹4000
- **(C)** ₹3800
- **(D)** ₹4100
- **(E)** ₹3500
- Direction (13 17): There are three persons A. B and C who each invested in two different scheme S₁ and S₂. A in invested ₹80,000 for 2 vr in scheme S₁ and 30,000 for 4 vears in scheme S₂. B invested ₹30,000 for 3year in S₁ and he did not invest in scheme B. B also obtained a profit of 10,000 by selling his car. C invested ₹50000 for 5 years in scheme S₁ and 10000 for 3 year in scheme S2. Total profit obtained from scheme S₁ is 2 lakh and scheme S2 is 90,000.
 - 13. What is the ratio of total profit obtained by B and profit obtained by C from scheme S1
 - **(A)** 23:47
- **(B)** 54:47
- (C) 36:43
- **(D)** 23:50
- **(E)** 27:50
- 14. Profit obtained by A from scheme S₁ is what percent of profit obtained by C from scheme S_2 .
 - **(A)** $346\frac{7}{9}\%$

- (E) $355\frac{5}{6}\%$

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15. What is the average of profit attained by A from scheme S1 and profit of C obtained from scheme S2.

(A) 41000

(B) 42000

(C) 44000

(D) 55000

- **(E)** 40000
- 16. What is the principle?

Quantity I: A sum is invested for 3 year with CI. It earns 10123.2 ₹with 12% rate of

Quantity II: A sum invested for 4 years with SI. It earns 14400 ₹with 15% rate of

- (A) Quantity I > Quantity II
- **(B)** Quantity I < Quantity II
- (C) Quantity $I \ge Quantity II$
- (**D**) Ouantity I < Ouantity II
- **(E)** Quantity I = Quantity II or no relation
- 17. A man deposited ₹x at S.I. in the beginning of 1st year and he added ₹x at the beginning of 2nd and 3rd year in a bank. After 3 years he got total amount ₹11160. If the rate of interest is 12% per annum. Find the value of
 - **(A)** ₹1700
- **(B)** ₹3000
- **(C)** ₹3200
- **(D)** ₹2500
- **(E)** None of these
- 18. If sum of investment of A in both schemes and total profit obtained by A from both scheme is invested at compound Interest at the rate of 20% p.a. then find the total compound interest obtained in 2 yr
 - **(A)** 108240
- **(B)** 104206
- **(C)** 105208 **(E)** 106220
- **(D)** 109280
- 19. If A had invested his sum at Simple Interest for 3 yr at the rate of R\% p.a. instead in scheme S₁ and B has invested his sum at compound Interest at (R + 5%) p.a. for 1 year and difference in interest obtained is

30,000 then find value of R%.



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(A) 10%

(B) 9%

(C) 15%

(D) 18%

(E) 12%

20. The simple interest earned on ₹14,400 in 5 years is ₹3,600 when invested at some rate of interest. What will be the compound interest earned on ₹14.000 when invested for 2 years at a rate double than in case of simple interest?

(A) ₹2940

(B) ₹3210

(C) ₹2820

(D) ₹3220

(E) ₹3050

