SIMPLE INTEREST

Direction: Read the following questions carefully and choose the right answer.

 From a bank, Ram and Shyam together took a certain amount under simple interest and they lent the total amount to Mohan at 2% more simple interest. At the end of 4 years, the total money earned by Ram after paying the interest to the bank was Rs. 400 more than that of Shyam. From the bank, the total amount taken by Ram was how much more than that of Shyam?

A. Rs. 10000 B. Rs. 20000 C. Rs. 5000 D. Rs. 25000 E. Can't be determined

2. Aman and Raghav are two friends. Aman started a business with an investment of Rs 7200, while Raghav puts 60% of his salary at 40% p.a simple interest for 6 months; Raghav takes the amount received after 6 months and joins Aman in the business. If Aman receives a profit of Rs. 2000 out of a total profit of Rs. 2900 at the end of 1 year, what was the original salary of Raghav?

A. Rs. 18000 B. Rs. 9400 C. Rs. 9000 D. Rs. 15000 E. None of these

3. Deepika deposited Rs. 1000 in a fund in 2019 which provides simple interest. The interest rate on the fund increases by 3% every year. If the interest rate at the time of amount deposit was 10%, find the interest earned by her after 9 years.

A. Rs. 1880 B. Rs. 1890 C. Rs. 2980 D. Rs. 1790 E. Rs. 1980

4. Rayan invested a total of Rs.49000 in two different schemes A and B. The scheme A which offers interest at a rate of 5% per annum and scheme B offers interest at a rate of 12%. If the total interest earned by Rayan after 1 year is Rs.4900 then find the sum invested in scheme B.

A. Rs. 34000 B. Rs. 19000 C. Rs. 35000 D. Rs. 14000 E. Rs. 30000

- 5. Dhanush invested Rs. 800 in a scheme which is offering 53/4% per annum simple interest. After 2 years he withdrew the money from the scheme and invested the total amount in another scheme which gives an interest rate of R% per annum simple interest. After 3 more years, he received a total of Rs. 1214.40 then what is the difference between the rates of interest?
 - A. $\frac{71}{13}$ B. $\frac{83}{7}$ C. $\frac{79}{12}$ D. $\frac{86}{3}$ E. None of these
- 6. Arjun distributed 65% of the money he had between A and B in the ratio 6 : 7 respectively. B and A deposited the amount received in a scheme offering 8% and 7% simple interest respectively for five years. Find the amount left with Arjun if the difference in the interests earned by A and B after five years is Rs. 1890.

7. After four years, the simple interest obtained on Rs. 8250 at the rate of (x + 4)% is Rs. 1320 more than the simple interest obtained at the rate of 8% per annum. Find the value of 'x'.

A. 12% B. 10% C. 8% D. 15% E. None of these

8. Ram borrowed Rs. x from Shyam at the rate of 13% simple interest and Rs. 2x from Mohan at the rate of 26 % simple interest he then added Rs. 82500 with the total amount he borrowed from Shyam and Mohan together and lend it to Sohan at the rate of 10% simple interest. The total profit, he received at the end of one year in this process was Rs. 1725. Find the value of x?

A. 18642.85 B. 19642.85 C. 16625.52 D. 17462.85 E. None of these

- 9. Akash borrowed Rs 12000 from a bank at the rate of 18% per annum for 8 years. After certain period of time government introduced a scheme which reduced the interest rate by 15%. At the end of 8 years Akash paid Rs 18000 in total then after how much time (in years) government introduced the scheme? (Simple interest is to be considered while solving the problem)
 - A. $6\frac{4}{5}$ B. $1\frac{11}{15}$ C. $1\frac{5}{11}$ D. $15\frac{1}{9}$ E. $7\frac{1}{4}$
- 10. A sum of Rs. 12,000 invested at 8% simple interest becomes Rs. 15840 in x years and another sum of Rs. 15,000 invested at 12% simple interest becomes Rs. 18,600 in y years. Find the value of x + y.
 - A. 6 B. 7 C. 5 D. 8 E. 10
- 11. The salary of a man is Rs. 60000, from which he deposits x% amount at 13% simple interest. If the accumulated amount for the sum deposited after 3 years was Rs. 29190, then find the value of 'x'.

A. 40 B. 35 C. 45 D. 50 E. None of these

12. Arnab deposited Rs. 14500 in SBI mutual fund which offers simple interest at the rate of 9%. The simple interest obtained from SBI is deposited in Birla Sun Life mutual fund at the rate of 12% simple interest. If the time period for depositing in SBI and Birla were 2 years and 5 years respectively, then find the total simple interest earned by Arnab.

A. Rs. 5248 B. Rs. 3856 C. Rs. 4176 D. Rs. 4462 E. None of these

13. The rate of interest for the first 2 years is 3% per annum, for the next 3 years is 8% per annum, and for the period beyond 5 years is 10% per annum. If the man withdraws total amount of Rs. 5320 after 6 years, find the sum he deposited?

14. Andy lends a sum of money at R% simple interest for R years such that sum received by him is 9/16 times more of what he lends. Find the value of R.

A. 5.5 B. 6.5 C. 7 D. 7.5 E. None of these

15. Sanjay borrowed certain amount of money at simple interest at the rate of 5% p.a. for the first three years, 10% p.a. for the next five years and 12% p.a. for the period beyond 8 years. If the total interest paid by him at the end of 12 years is Rs. 6780, how much money did he borrow?

A. Rs. 6000 B. Rs. 5000 C. Rs. 4500 D. Rs. 5500 E. Rs. 3840

16. A certain sum 10M Invested at simple Interest becomes 130M in 30 years. If the same amount invested with same rate of Interest but at Compound Interest, it will become _______ after two years?

A. 14.4 M B. 19.6 M C. 23.2 M D. 16.9 M E. None of these

17. When a person invests some money under simple interest then at the end of some years the amount become 9 times of the principal amd the numerical value of the rate of interest per annum is double of the time. At the end of 15 years, the amount will become how many times of the principal at the same rate of interest?

A. 6 timesB. 8 timesC. 9 timesD. 7 timesE. None of these

18. A person invests Rs. x under simple interest in bank 1 for 4 years at the rate of 10% per annum. He invests Rs. x + 500 under simple interest in bank 2 for 5 years at the rate of 7.5% per annum. If the simple interest received from the bank 1 is Rs. 75 less than that of the bank 2, what is the sum of the simple interest received from both the banks together?

A. Rs. 4500 B. Rs. 4250 C. Rs. 3675 D. Rs. 3775 E. None of these

19. A person invested Rs. x under simple interest for 10 years at 10% per annum. If he had invested Rs. 2x under simple interest for 15 years at the rate of interest 20% per annum then he would have received Rs. 2500 more simple interest. Find the value of X?

A. Rs. 2500 B. Rs. 500 C. Rs. 3250 D. Rs. 3750 E. None of these

20. Amount of Rs. 2 lacs was invested at a simple Interest of 5%. After five years, the interest earned in first five years is added to the principal, and from sixth year, simple Interest is calculated on new Principal amount. After how many years it will become 3,50,000 ? (Interest rate remains same for all years)

21. Rahim sells a car at Rs. 100,000 to his friend Raman. Raman invests Rs. 20,000 on its servicing. Meanwhile, Rahim invests the money obtained from selling the car in a bank at 5% simple interest for 5 years. After 5 years, Rahim withdraws all his money along with the interest from the bank and asks Raman to sell back the car to him. Raman agrees to sell but with some additional price. If Rahim had to give all the money he got from the bank, what percent extra money Raman charged him with respect to Raman's investment in servicing?

A. 35% B. 25% C. 15% D. 5% E. None of these

22. A man spends 20% of his monthly income on rent. Out of the remaining monthly income, he spends 25% on food, Rs. 'a' on transportation and the remaining money is deposited in the savings account which is 48% of the total monthly salary. If the amount is deposited for 5 years in the savings account he gets a simple interest of Rs. 8294.4 at the rate of 7.2% per annum, then find the value of 'a'.

A. Rs. 6240 B. Rs. 7280 C. Rs. 5760 D. Rs. 6860 E. None of these

23. A person lent some amount to his friend at 20% simple interest. After two years, Rs. 5000 was paid and the rest amount was repaid at 25% per annum. If 3rd year's interest is 6/11 of first two years' interest. Find the amount of money that was lent out initially? (Given that returned amount is reduced from the Principal)

A. Rs. 38000.36 B. Rs. 38285.63 C. Rs. 39000.17 D. Rs. 39285.71 E. None of these

24. Income of Ram is Rs. X per month. He invests 50% of the yearly income in a bank at the beginning of successive 4 years and the bank pays simple interest of 20% per annum, then the amount at his credit at the end of 4th year will be:

A. Rs. 30X B. Rs. 33X C. Rs. 36X D. Rs. 44X E. None of these

25. A sum of money becomes 5 times of itself in 20 years. If the rate of interest is doubled and time is tripled then the simple interest received on the same sum of money will be how many times of the sum of money?

 A. 12 times
 B. 6 times
 C. 24 times
 D. 18 times
 E. 15 times

26. A sum of money becomes 2 times of itself in 10 years at simple interest. A person invests Rs. 5000 at the same rate of interest per annum under simple interest and the same amount at the same rate of interest per annum under compound interest compounded annually. Find the sum of the simple interest and compound interest received on the sum only in the second year?

A. KS. 1050 B. KS. 1000 C. KS. 1025 D. KS. 1075 E. NORE OF LIESE
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27. The simple interest received on a sum of money at 10% per annum in some years is half of the sum. If the rate of simple interest is 3% more then the simple interest received on the same sum for the same period is Rs. 450 more. Find the sum of money?

A. Rs. 2400 B. Rs. 2500 C. Rs. 2750 D. Rs. 3000 E. None of these

28. Ajay invests some amount of money at a certain rate of simple interest per annum and gets Rs. 3120 as interest after 1 year. If the rate would have been 4% more per annum he would have earned Rs. 3120 more in 18months. What was the amount invested by Ajay?

A. Rs. 26000 B. Rs. 24000 C. Rs. 30000 D. Rs. 32000 E. None of these

29. Ashok has Rs 1,60,000 with him. He lends some money at 7% p.a. and rest of the money at 12% p.a. simple interest. He receives a total of Rs 14400 at the end of 1 year. What is the amount lent at 12% per annum?

A. Rs. 56000 B. Rs. 64000 C. Rs. 72000 D. Rs. 96000 E. None of these

30. Simple interest on a sum of Rs.50000 at the rate of 15% per annum after two years will be what percent of compound interest on that sum at the same rate of interest for the same time period.

A. 87.4% B. 89.6% C. 91.4% D. 93.02% E. None of these

31. Rajat lends Rs. 20,000 to two of his friends. He gives Rs.10,000 to the first at 15% p.a. simple interest. Rajat wants to make a profit of 20% on the whole. The simple interest rate at which he should lend the remaining sum of money to the second friend is

A. 12% B. 16% C. 20% D. 25% E. None of these

32. Ankit invests Rs.15000 as fixed deposit in a bank at the rate of 12% per annum simple interest. But due to some pressing needs, he has to withdraw the entire money after 5 years for which the bank allowed him a lower rate of interest. If he gets Rs. 6420 less than, what he would have got at the end of 8 years, then rate of interest allowed by the bank is:

A. 4.68% B. 10.64% C. 8.64% D. 6.84% E. None of these

33. A sum invested at 10% simple interest per annum grows to Rs. 900 in 5 years. The same amount at 15% simple interest per annum in 2.5 years will grow to?

A. 830 B. 835 C. 825 D. 820 E. None of these

34. A manager of a company invested a total amount of Rs. 35900 in two different policies for his 2 employees having experience of 5 years and 7 years respectively. He invested the amount in such a way that each employee will get the equal amount when each of them will have 12 years of experience. If the policies offer 12% rate of simple interest to less experienced employee and 15% rate of simple interest to the employee having more experience. How much did the employee with less experience get when he will have 12 years of experience?

A. Rs. 32200 B. Rs. 21200 C. Rs. 14200 D. Rs. 17950 E. None of these

35. The rate of interest on a sum of money is 4% per annum for the first 2 years, 6% per annum for the next 4 years and 8% per annum for the period beyond 6 years. If the simple interest accrued on the sum for a total period of 9 years is Rs. 1680, what is the sum?

A. Rs. 3000 B. Rs. 5000 C. Rs. 4700 D. Rs. 5500 E. None of these

36. Simple interest on a certain amount is 16/25 of the principal, provided that rate of interest and time period in years are same. What will be the simple interest after twelve years if the principal is Rs. 25000 and the rate is same?

A. Rs. 12000 B. Rs. 24000 C. Rs. 22000 D. Rs. 26000 E. None of these

37. The interest earned when Rs. P is invested for Six years in a scheme offering 13% pa simple interest is more than the interest earned when the same sum (Rs.P) is invested for Three years in another scheme offering 10% pa simple interest, by Rs. 3168. What is the value of P?

A. 5500 B. 6600 C. 4400 D. 3300 E. none of these

38. Shivay buys a web cam for his personal computer costs Rs. 16000. He pays 175/4% at once and the rest amount 15 months later, on which he is charged simple interest at the rate of 16% per annum. If Shivay pays whole money at once, then by what approximate per cent he would have to pay less amount from the amount he is paying with the interest?

A. Rs.56000	B. Rs. 64000	C. Rs. 72000	D. Rs. 96000	E. None of these
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39. Ashok has Rs 1, 60,000 with him. He lends some money at 7% p.a. and rest of the money at 12% p.a. simple interest. He receives a total of Rs 14400 at the end of 1 year. What is the amount lent at 12% per annum?

A. 600 m B. 720	m C. 680 m	D. 650 m	E. None of these
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40. Ajay invests some amount of money at a certain rate of simple interest per annum and gets Rs. 3120 as interest after 1 year. If the rate would have been 4% more per annum he would have earned Rs. 3120 more in 18months. What was the amount invested by Ajay?

A. Rs. 26000 B. Rs. 24000 C. Rs. 30000 D. Rs. 32000 E. None of these

41. Find the simple interest on Rs. 45,000 for the period from 4th June 2018 to 31st December 2018 at 13% per annum?

A. Rs. 3266.75 B. Rs. 3165.75 C. Rs. 3375.75 D. Rs. 3385.75 E. Rs. 3365.75

42. A sum of money becomes 7/5 times of itself in 2 years under simple interest. If the same sum of money was invested under compound interest at the same rate of interest and for two years then amount would have been how many times of the sum?

A. 1.32 times B. 1.44 times C. 1.5 times D. 1.47 times E. None of these

43. Ram takes Rs. 5000 from Mohan for 3 years under simple interest at the rate of 10% per annum calculated half-yearly. What amount will be paid by Ram to Mohan after the end of 3 years?

A. Rs. 9000 B. Rs. 3000 C. Rs. 6500 D. Rs. 7500 E. None of these

44. A borrowed a sum of money from B for some time at simple interest. The rate of interest is equal to the number of years. If the simple interest on the sum is 1/4 of the sum, then find the rate of interest?

A. 4% B. 5% C. 6% D. 7% E. None of these

45. Manish lends x% of his monthly salary which is Rs. 60000 at 20% simple interest to his colleague Harish. If the amount accumulated after 4 years was Rs. 32400, then find the value of x.

A. 20 B. 30 C. 15 D. 25 E. 35

46. Tony borrowed a sum of Rs. 15,000 at 12% per annum from a money-lender on 21st January, 2018 and return the amount on 28th August, 2018 to clear his debt. Then find the amount paid by Tony to the money-lender to clear his debt.

A. Rs. 16080 B. Rs. 9000 C. Rs. 12000 D. Rs. 10000 E. None of these

47. Find the interest earned after three years, if a person invests Rs. 293 at simple interest at the rate of 21% per annum.

A. 13.140.00 D. 13.104.35 C. 13.242.37 D. 13.221.35 E. 1011C OI (1103)	A. Rs.148.60	B. Rs.184.59	C. Rs.242.37	D. Rs.221.93	E. None of these
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48. A sum of money becomes five times of itself in 5 years at a certain rate of interest. Find the rate of interest?

A. 60%	B. 70%	C. 90%	D. 80%	E. None of these
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- **49.** A sum of money under compound interest compounded annually become Rs. 360 at the end of second year and Rs. 432 at the end of third year. At the same rate of interest on the same sum of money, what would be the difference between the simple interest earned at the end of 5 years and thae simple interest earned at the end of 9 years?
 - A. Rs. 240 B. Rs. 200 C. Rs. 150 D. Rs. 300 E. None of these
- **50.** The simple interest received on a sum of money at the end of 10 years is two times of the principal. At the same rate of interest, what would be the ratio of principal and compound interest received at the end of two years?

A. 20 : 11 B. 20 : 9 C. 25 : 11 D. 25 : 9 E. None of thes	A. 20 : 11	B. 20 : 9	C. 25 : 11	D. 25 : 9	E. None of thes
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1	С	11	В	21	В	31	D	41	E
2	С	12	С	22	С	32	В	42	В
3	E	13	А	23	D	33	С	43	С
4	С	14	D	24	С	34	А	44	В
5	С	15	А	25	С	35	А	45	В
6	С	16	В	26	Α	36	В	46	А
7	С	17	D	27	D	37	В	47	В
8	Α	18	С	28	Α	38	D	48	D
9	В	19	В	29	В	39	В	49	В
10	A	20	С	30	D	40	А	50	С

ANSWERS