

Previous Year Topic-wise SSC CGL 2022

Smart Practice Question Series



Asian Online Smart Practice

MATHEMATICS

Chapter 4 : Simple and Compound Interest

Simple and Compound Interest

SSC CGL
Tier-1

1 Dec Shift-2
11:45 AM - 12:45 PM

1. A person lent certain sum of money at the annual rate of 25 percent on simple interest. In 6 years the interest amounted to Rs.360 more than the sum lent. What is the sum lent?
- A. Rs.600
 - B. Rs.360
 - C. **Rs.720**
 - D. Rs.540

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Simple and Compound Interest

SSC CGL
Tier-1

1 Dec
Shift-3 2:30 PM - 3:30
PM

2. The simple interest on a certain sum for 3 years at 14% p.a. is ₹4,200 less than the simple interest on the same sum for 5 years at the same rate. Find the sum.
- A. ₹ 16,000
 - B. ₹ 10,000
 - C. ₹ 15,000
 - D. ₹ 12,000

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SSC CGL
Tier-1

1 Dec Shift-4
5:15 PM - 6:15 PM

3. Damani purchased an item costing ₹7,500 and paid ₹3,500 as a down payment for the same. If the simple interest charged for the remaining amount is 9% per annum and Damani cleared all dues after 4 months of the purchase, how much did Damani pay after 4 months as interest?
- A. ₹120
 - B. ₹100
 - C. ₹132
 - D. ₹125

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SSC CGL
Tier-1

2 Dec, 2022 Shift-1
9:00 AM - 10:00 AM

4. A sum of Rs.6,000 is to be paid back in two equal annual instalments; each instalment is to be paid at the end of every year. How much is each instalment if the interest is compounded annually at 2% p.a.? (Rounded off up to two decimal places)
- A. Rs.2,092.29
 - B. Rs.3,090.30
 - C. Rs.2,291.29
 - D. Rs.3,589.30

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SSC CGL
Tier-1

2 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

5. What annual instalment will discharge a debit of ₹5,664 in 4 years at 12% simple interest?
- A. ₹1,230
 - B. ₹1,210
 - C. ₹1,200
 - D. ₹1,220

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SSC CGL
Tier-1

2 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

6. On simple interest a sum of ₹640 becomes ₹832 in 2 years. What will ₹860 become in 4 years at the same rate of simple interest?
- A. ₹1,250
 - B. ₹1,376
 - C. ₹1,426
 - D. ₹1,150

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SSC CGL
Tier-1

3 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

7. ₹5,000 is divided into two parts such that if one part is invested at 4% and the other at 5%, then the whole annual interest from both the sums is ₹223. How much was invested at 4%?
- A. 2,600
 - B. 2,700
 - C. 2,400
 - D. 2,300

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SSC CGL
Tier-1

3 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

8. Suman paid ₹9,600 in interest on a loan she obtained 5 years ago with a simple interest rate of 16%. What was the amount of the loan she had taken?
- A. 13,250
 - B. 12,500
 - C. 12,000
 - D. 11,750

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Tier-1

3 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

9. What would be the compound interest on Rs.15,750 at 20% per annum, in two years, if the interest is compounded half yearly?
- A. Rs 5213.25
 - B. Rs 3,307.5
 - C. Rs 7,305.975
 - D. Rs 7,309.575

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SSC CGL
Tier-1

3 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

10. A sum becomes Rs.15,500 in 7 years on simple interest at the rate of 30 percent per annum. What is the total interest for the 7 years?
- A. Rs.12,200
 - B. Rs.1,47,000
 - C. Rs.10,500
 - D. Rs.11,500

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SSC CGL
Tier-1

5 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

11. In how much time will a sum of Rs. 5250 amounts to Rs. 9870 at the rate of 11 percent per annum at simple interest?
- A. 8 years
 - B. 14 years
 - C. 12 years
 - D. 15 years

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Tier-1

5 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

12. A certain sum of money becomes triple of itself in 26 years at simple interest. In how many years it will become five times of itself?
- A. 64 years
 - B. 52 years
 - C. 56 years
 - D. 60 years

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Tier-1

5 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

13. A sum of money invested at simple interest becomes $\frac{17}{10}$ of itself in 2 years and 6 months. What is the rate of interest per annum?
- A. 22 percent
 - B. 16 percent
 - C. 28 percent
 - D. 34 percent

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SSC CGL
Tier-1

5 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

14. A certain sum amounts to ₹3,640 in 2 years and ₹4,060 in 8 years at simple interest. Find the approximate rate percentage per annum?
- A. 4%
 - B. 2%
 - C. 1%
 - D. 3%

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SSC CGL
Tier-1

2 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

15. The simple interest received on a sum is $\frac{25}{36}$ of the sum. The number of years is equal to the annual rate of interest. What is the annual rate of interest?
- A. 9.25 percent
 - B. 10.25 percent
 - C. 6.62 percent
 - D. 8.33 percent

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SSC CGL
Tier-1

6 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

16. A car with a price of ₹6,50,000 is bought by making some down payment. On the balance, a simple interest of 10% is charged in lump sum and the money is to be paid in 20 equal annual instalments of ₹25,000. How much is the down payment?
- A. ₹ 1,55,945
 - B. ₹ 1,95,455
 - C. ₹ 1,94,555
 - D. ₹ 1,45,955

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Simple and Compound Interest

SSC CGL
Tier-1

6 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

17. A sum of money amounts to ₹767 in 3 years, and to ₹806 in 4 years on simple interest at 6% annum. What is the sum?
- A. ₹600
 - B. ₹560
 - C. ₹675
 - D. ₹650

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SSC CGL
Tier-1

6 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

18. A person lent Rs. 23000 to B for 3 years and Rs. 19000 to C for 4 years on simple interest at the same rate of interest and received Rs. 3625 in all from both of them as interest. What is the annual rate of interest?
- A. 1.5 percent
 - B. 3 percent
 - C. 2.5 percent
 - D. 4 percent

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SSC CGL
Tier-1

7 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

19. A person lent certain sum of money at the annual rate of 7 percent on simple interest and the interest received in 11 years is Rs. 920 less than the sum lent. What is the sum lent?
- A. Rs. 41200
 - B. Rs. 4000
 - C. Rs. 52000
 - D. Rs. 2400

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Tier-1

7 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

20. A sum is deposited in a bank which gives simple interest. The sum becomes 1.25 times in 3 years. If there is a requirement of ₹7,60,000 after seven years, how much amount (in ₹) should one deposit to fulfil the requirement?
- A. 5,20,000
 - B. 5,70,000
 - C. 4,80,000
 - D. 6,00,000

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Tier-1

7 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

21. What annual instalment will discharge a debt of Rs.9,600 due in 5 years at 10% simple interest?
- A. Rs.1450
 - B. Rs.1550
 - C. Rs.1500
 - D. Rs.1600

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Tier-1

7 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

22. Find the simple interest on ₹2,700 for 8 months at 5 paisa per rupee per month?
- A. ₹950
 - B. ₹720
 - C. ₹540
 - D. ₹1,080

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SSC CGL
Tier-1

8 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

23. In a certain duration of time, a sum become 2 times itself at the rate of 5% per annum simple interest. What will be the rate of interest if the same sum becomes 5 times itself in the same duration?
- A. 20 Percent
 - B. 16 Percent
 - C. 10 Percent
 - D. 18 Percent

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Simple and Compound Interest

SSC CGL
Tier-1

8 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

24. Anuradha invests her money in a firm where the principal amount becomes 3 times in 10 years. What is the yearly rate of simple interest offered by the firm?
- A. 25%
 - B. 20%
 - C. 22%
 - D. 18%

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Simple and Compound Interest

SSC CGL
Tier-1

8 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

25. A certain amount will become six times in 20 years. How long does it take for the same amount to become 5 times? Assume the same rate of simple interest in each case.
- A. 16 years 8 months
 - B. 15 years 8 months
 - C. 15 years
 - D. 16 years

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Simple and Compound Interest

SSC CGL
Tier-1

8 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

26. A certain sum of money is given at a certain rate for 3 years. Had it been given at 5% higher rate, it would have fetched ₹600 more. Find the sum.
- A. ₹ 8,000
 - B. ₹ 5,000
 - C. ₹ 6,000
 - D. ₹ 4,000

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Simple and Compound Interest

SSC CGL
Tier-1

9 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

27. In how much time will a sum of Rs. 10200 amounts to Rs. 19125 at the rate of 12.5 percent per annum at simple interest?
- A. 6 years
 - B. 5 years
 - C. 8 years
 - D. 7 years

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Simple and Compound Interest

SSC CGL
Tier-1

9 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

28. What is the present value of Rs.10,000 received in 2 years, if the interest rate is 12% per year discounted semi-annually?
- A. 7,020.94
 - B. 7,920.90
 - C. 7,920.94
 - D. 7,900.94

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SSC CGL
Tier-1

9 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

29. Monty paid a simple interest of ₹480 on a particular sum after 2 years. The rate was 8% per annum. Find the sum.
- A. ₹2,200
 - B. ₹2,000
 - C. ₹3,000
 - D. ₹2,500

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Simple and Compound Interest

SSC CGL
Tier-1

9 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

30. In how many least number of complete years a sum of money become more than four times of itself at the rate of 50 percent per annum on simple interest?
- A. 9 years
 - B. 7 years
 - C. 6 years
 - D. 5 years

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Simple and Compound Interest

SSC CGL
Tier-1

12 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

31. The following table shows the marks distribution among the student in a class. How many student scored marks between 20 and 30?

- A. 2
- B. 5
- C. 1
- D. 6

Marks	No. of Students
Less than 10	2
Less than 20	5
Less than 30	6
Less than 40	8
Less than 50	10

Simple and Compound Interest

SSC CGL
Tier-1

12 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

32. A person borrows Rs.1,00,000 from a bank at 10% per annum simple interest and clears the debt in five years. If the instalment paid at the end of the first, second, third and fourth years to clear the debt are Rs.10,000, Rs.20,000, Rs.30,000 and Rs.40,000, respectively, what amount should be paid at the end of the fifth year to clear the debt?
- A. Rs.38,250
 - B. Rs.39,490
 - C. Rs.40,450
 - D. Rs.36,450

Simple and Compound Interest

SSC CGL
Tier-1

12 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

33. What is the rate of interest per annum for simple interest at which Rs. 880 amounts to Rs.913 in $1\frac{1}{2}$ years?
- A. $2\frac{2}{3}\%$
 B. $2\frac{1}{4}$
 C. $2\frac{1}{2}$
 D. $2\frac{1}{3}$

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Simple and Compound Interest

SSC CGL
Tier-1

12 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

34. A person deposited ₹15,600 in a fixed deposit at 10% per annum simple interest. After every second year he adds his interest earned to the principal. The interest at the end of 4 years is:
- A. ₹6,655
 - B. ₹6,864
 - C. ₹3,975
 - D. ₹3,744

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Simple and Compound Interest

SSC CGL
Tier-1

12 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

35. A sum of money doubles itself in 7 years at simple interest. In how much time will it become 5 times of itself?
- A. 25 years
 - B. 28 years
 - C. 23 years
 - D. 21 years

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Simple and Compound Interest

SSC CGL
Tier-1

13 Dec, 2022
Shift-1 (9:00 AM -
10:00 AM)

36. The monthly income of Mr. Roy is Rs.18,000. He took a loan of Rs.30,000 on simple interest for 3 years at the rate of 5% per annum. The amount that he will be paying as simple interest in 3 years is what percent of his monthly salary?
- A. 30%
 - B. 35%
 - C. 20%
 - D. 25%

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Simple and Compound Interest

SSC CGL
Tier-1

13 Dec, 2022
Shift-2 (11:45 AM -
12:45 PM)

37. A sum of Rs.10 is lent by a child to his friend to be returned in 11 monthly instalments of Rs.1 each, the interest being simple. The rate of interest is:
- A. $11\frac{9}{11}$
- B. $21\frac{9}{11}$
- C. $10\frac{2}{11}$
- D. $9\frac{1}{11}$

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Simple and Compound Interest

SSC CGL
Tier-1

13 Dec, 2022
Shift-3 (2:30 PM -
3:30 PM)

38. A person borrowed ₹2,000 at 5% annual simple interest repayable in 3 equal annual installments. What will be the annual installment?

- A. ₹730 $\frac{10}{63}$
- B. ₹840 $\frac{9}{61}$
- C. ₹640 $\frac{11}{63}$
- D. ₹250 $\frac{10}{63}$

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Simple and Compound Interest

SSC CGL
Tier-1

13 Dec, 2022
Shift-4 (5:15 PM -
6:15 PM)

39. A certain sum of money lent at simple interest amounts to ₹1,200 in 2 years and ₹1,600 in 4 years. The rate per cent per annum is:
- A. 20%
 - B. 30%
 - C. 25%
 - D. 16%

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Simple and Compound Interest

Answer key							
1	C	11	A	21	D	31	C
2	C	12	B	22	D	32	B
3	A	13	C	23	A	33	C
4	B	14	B	24	B	34	B
5	C	15	D	25	D	35	B
6	B	16	B	26	D	36	D
7	B	17	D	27	D	37	B
8	C	18	C	28	C	38	A
9	D	19	B	29	C	39	C
10	C	20	C	30	B		