COMPOUND INTEREST

1. Mohan invested an amount of Rs 15,000 at compound interest rate 5% p.a. for a period of 2 years. What amount will be received at the end of 2 years?

(1) Rs 16,537.50 (2) Rs 18, 543.50

(3) Rs 20,302.75 (4) Rs 12,421.50

(5) None of these

2. Rashi invested Rs 16,000 for two years at compound interest and received an amount of Rs 17,640 on maturity. What is the rate of interest?

(1) 6% p.a. (2) 8% p.a.

(3) 7% p.a. (4) 5% p.a.

(5) None of these

3. Find the amount of Rs 8,000 in 1^- years at 5% per annum compound interest payable half-yearly.

(1) Rs 7,315.12(2) Rs 8,615.13

(3) Rs 9,247.10(4) Rs 7,415.10

(5) None of these

4. Find the compound interest on Rs 1,000 at 40% per annum compounded quarterly for 1 year.

(1) Rs 350.12 (2) Rs 361.10

(3) Rs 451.50 (4) Rs 464.10

(5) None of these

5. Rs 50000 is borrowed at CI at the rate of 1% for the first year, 2% for the second year and 3% for the third year. Find the amount to be paid after 3 years.

(1) Rs 50353.3 (2) Rs 53055.3

(3) Rs 53505.3 (4) Rs 53053.3

(4) None of these

6. At what rate per cent compound interest will Rs 400 amount to Rs 441 in 2 years?

(1) 4% (2) 5%

(3) 6% (4) 3%

(5) None of these

7. A sum of money placed at compound interest doubles itself in 6 years. In how many years will it amount to 16 times itself?

(1) 24 years (2) 26 years

(3) 22 years (4) 20 years

(5) None of these

8. A sum of money placed at compound interest thrice itself in 4 years. In how many years will it amount to 27 times itself?

(1) 12 years (2) 15 years

(3) 14 years (4) 10 years

(5) None of these

9. At what rate per cent will the compound interest does a sum of money become four fold in 2 years?

(1) 150% (2) 100%

(3) 200% (4) 75%

(5) None of these

10. At what rate per cent will the compound interest does a sum of money become 27 times in 3 years?

(1) 100% (2) 150%

(3) 75% (4) 200%

(5) None of these

11. The simple interest on a certain sum of money for 2 years at 5% per annum is Rs 100. Find the compound interest at the same rate and for the same time.

(1) Rs 102.50 (2) Rs 103

(3) Rs 103.50 (4) Rs 309

(5) None of these

12. The compound interest on a certain sum for 2 years is Rs 105 and simple interest is Rs 100. Find the rate of interest per annum and the sum.

(1) 10%; Rs 500

(2) 10%; Rs 1000

(3) 20%; Rs 1000

(4) 15%; Rs 1200

(5) None of these

13. The compound interest on a certain sum for 2 years is Rs 60.60 and simple interest is Rs 60. Find the rate of interest per annum and the sum.

(1) 2%; Rs 1600 (2) 2%; Rs 1400

(3) 3%; Rs 1500 (4) 2%; Rs 1500

(5) None of these

14. On a certain sum of money, the simple interest for 2 years is Rs 150 at the rate of 3% per annum. Find the difference in CI and SI.

(1) Rs 5 (2) Rs 4.5

(3) Rs 2.5 (4) Rs 2.25

(5) None of these

15. The difference between the compound interest and the simple interest on a certain sum of money at 4% per annum for 2 years is Rs. 1.40. Find the sum.

(1) Rs 875 (2) Rs 857

(3) Rs 785 (4) Rs 865

(5) None of these

16. Find the difference between the compound interest and the simple interest for the sum Rs 625 at 8% per annum for 2 years.

(1) Rs 3 (2) Rs 4

(3) Rs 4.5 (4) Rs 1.5

(5) None of these

17. Find the difference between the compound interest and the simple interest for the sum Rs 2500 at 6% per annum for 2 years.

(1) Rs 9 (2) Rs 8

(3) Rs 7.5 (4) Rs 6

(5) None of these

18. On what sum will the difference between the simple and compound interest for 3 years at 5 per cent per annum amount to Rs 12.20?

(1) Rs 1600 (2) Rs 800

(3) Rs 1200 (4) Rs 1500

(5) None of these

19. Find the difference between the simple and compound interest on Rs 10000 for 3 years at 3 per cent.

(1) Rs 27.8 (2) Rs 27.27

(3) Rs 37.27 (4) Rs 37.8

(5) None of these

20. Find the difference between the simple and compound interest on Rs 8000 for 3 years at 5 per cent.

(1) Rs 61 (2) Rs 60

(3) Rs 51 (4) Rs 59

(5) None of these

21. A certain amount of money at compound interest grows up to Rs 7520 in 15 years and upto Rs 7896 in 16 years. Find the rate per cent per annum.

(1) 10% (2) 8%

(3) 5% (4) 7%

(5) None of these

22. What sum of money at compound interest will amount to Rs 650 at the end of the first year and Rs 676 at the end of the second year?

(1) Rs 625 (2) Rs 630

(3) Rs 620 (4) Rs 635

(5) None of these

23. What sum of money at compound interest will amount to Rs 480 at the end of the first year and Rs 576 at the end of the second year?

(1) Rs 420 (2) Rs 450

(3) Rs 400 (4) Rs 375

(5) None of these

24. Find the ratio of CI to SI on a certain sum at 5% per amount for 2 years.

(1) 41:40 (2) 42:41

(3) 43:40 (4) 41:35

(5) None of these

25. Divide Rs 1105 between A and B, so that the A's share at the end of 5 years may equal B's share

at the end of 7 years, compound interest being at 10%.

(1) Rs 505, Rs 600 (2) Rs 605, Rs 500

(3) Rs 705, Rs 400 (4) Rs 625, Rs 480

(5) None of these

26. Divide Rs 6100 between A and B, so that A's share at the end of 3 years may equal B's share at the end of 5 years, compound interest being at 20%.

(1) Rs 3600, Rs 2500

(2) Rs 3500, Rs 2600

(3) Rs 3400, Rs 2700

(4) Rs 3700, Rs 2400

(5) None of these

27. Kamal purchased a scooter car 4 years ago for Rs 2 lakh. Its value depreciated each year at the rate of 2.5% p.a. What is the present value of the car?

(1) Rs 86,425 (2) Rs 85,242

(3) Rs 84,375 (4) Rs 86,342

(5) None of these

28. Kaya invests Rs 5,000 in a bond which gives interest at 4% per annum during the first year, 5% during the second year and 10% during the third year.

(1) Rs 6,006 (2) Rs 7,216

(3) Rs 3,001 (4) Rs 5,216

(5) None of these

29. The population of a village decreases at the rate of 20% per annum. If its population 2 years ago was 10,000, what is its present population?

(1) 6,000 (2) 9,000

(3) 6,400 (4) 7,600

(5) None of these

30. The difference between simple interest and compound interest on a certain sum of money for 2 years at 4 per cent annum is Re. 1. The sum of money is

(1) Rs 600 (2) Rs 625

(3) Rs 560 (4) Rs 650

(5) None of these

31. Joy invested an amount of Rs. 8000 in a fixed deposit scheme for 2 years at compound interest rate 5% per annum. How much amount will Joy get on maturity of the fixed deposit?

(1) Rs. 8000 (2) Rs. 7000

(3) Rs. 8820 (4) Rs. 6000

(5) None of these

32. What will be the compound interest on a sum of Rs. 25,000 after 3 years at the rate of 12% per annum ?

(1) Rs. 10123.20

(2) Rs. 10000.20

(3) Rs. 10500.20

(4) Rs. 11000.20

(5) None of these

33. The compound interest on Rs.20,480 at 6.25% per annum for 2 years 73 days , is

(1) Rs. 3000 (2) Rs. 2929

(3) Rs. 4500 (4) Rs. 4600

(5) None of these

34. Sarita invested Rs.15,000 at the rate 10% per annum for one year. If the interest is compounded half-yearly, then the amount received by Sarita at the end of the year will be

(1) Rs. 16000 (2) Rs. 16537.50

(3) Rs. 15000 (4) Rs. 14000

(5) None of these

35. Find the compound interest on Rs.15, 625 for 9 months at 16% per annum compounded quarterly

(1) Rs. 17600 (2) Rs. 18000

(3) Rs. 15000 (4) Rs. 17576

(5) None of these

36. If the simple interest on a sum of money for 2 years at 5% per annum is Rs.50 , then what is the compound interest on the same sum at the same rate and for the same time?

(1) Rs. 551.25 (2) Rs. 560.25

(3) Rs. 500 (4) Rs. 600

(5) None of these

37. What will be the difference between simple and compound interest at the rate 10% per annum on a sum of Rs. 1000 after 4 years?

(1) Rs. 65 (2) Rs. 80

(3) Rs. 90 (4) Rs. 100

(5) None of these

38. The difference between simple and compound interest on Rs.1200 for one year at 10% per annum reckoned half-yearly is

(1) Rs. 5 (2) Rs. 3

(3) Rs. 5 (4) Rs. 10

(5) None of these

39. The compound interest in Rs.30,000 at 7% per annum is Rs.4347. The period is

(1) 3 years (2) 5 years

(3) 6 years (4) 2 years

(5) None of these

40. At what rate of compound interest per annum will a sum of Rs. 1200 becomes Rs. 1348.32 in 2 years ?

(1) 6% (2) 8%

(3) 9% (4) 10%

(5) None of these

41. The principal that amounts to Rs 4913 in 3 years at 6.25% per annum compound interest compounded annually is

(1) Rs. 5096 (2) Rs. 5000

(3) Rs. 6000 (4) Rs. 3000

(5) None of these

42. The present worth of Rs. 169 due in 2 years at 4% per annum compound interest is

(1) Rs. 150.25 (2) Rs. 160

(3) Rs. 170 (4) Rs. 180

(5) None of these

43. In how many years will a sum of Rs. 800 at 10% per annum compounded semi- annually becomes Rs. 926.10?

(1) 3 years (2) 1.5 years

(3) 5 years (4) 4 years

(5) None of these

44. If the compound interest on a sum for 2 years at 12.5 % per annum is Rs.510, the simple interest on the same sum at the same rate for the same period of time is

(1) Rs. 500 (2) Rs. 600

(3) Rs. 700 (4) Rs. 480

(5) None of these

45. The simple interest on a certain sum of money for 3 years at 8% per annum is half the compound interest on Rs.4000 for 2 years at 10% per annum. The sum placed on simple interest is

(1) Rs. 500 (2) Rs. 800

(3) Rs. 600 (4) Rs. 600

(5) None of these

46. There is 60% increase in an amount in 6 years at simple interest. What will be the compound interest of Rs.12, 000 after 3 years at the same rate?

(1) Rs. 1550 (2) Rs. 1800

(3) Rs. 1750 (4) Rs. 2000

(5) None of these

47. 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 per cent annum is

(1) Rs. 4000 (2) Rs. 5000

(3) Rs. 6000 (4) Rs. 7000

(5) None of these

48. The effective annual rate of interest corresponding to a nominal rate of 6% per annum payable half-yearly is

(1) 6.09% (2) 8.09%

(3) 10% (4) 11%

(5) None of these

49. A sum of money invested at compound interests amounts to Rs.800 in 3 years and to Rs 840 in 4 years. The rate of interest per annum is

(1) 10% (2) 7%

(3) 6% (4) 4%

(5) None of these

50. The compound interest on Rs.3000 for 3 years at 12% per annum compounded annually is

(1) Rs. 1500 (2) Rs.2000

(3) Rs. 16000 (4) Rs. 1214.58

(5) None of these

51. The compound interest on Rs.2000 for 2 years at 5% per annum compounded annually is

(1) Rs. 300 (2) Rs. 205

(3) Rs. 400 (4) Rs. 405

(5) None of these

52. Rs. 2000 is invested at annual rate of interest of 10%. What is the amount after two years if compounding is done annually?

(1) Rs. 5000 (2) Rs. 2420

(3) Rs. 3000 (4) Rs. 3200

(5) None of these

53. What will be the compound interest on a sum of Rs.25, 000 after 3 years at the rate of 12% per annum?

(1) Rs. 10123.20 (2) Rs. 11000

(3) Rs. 12000 (4) Rs. 13000

(5) None of these

54. Sheela invested Rs.8000 for 3 years at 5% CI in a post office. If the interest is compounded once in a year, what sum will she get after 3 years?

(1) Rs. 10000 (2) Rs. 7000

(3) Rs. 8000 (4) Rs. 8500

(5) None of these

55. A man saves Rs.200 at the end of each year and lends the money at 5% compound interest. How much will it become at the end of 3 years?

(1) Rs. 655.02 (2) Rs. 662.02

(3) Rs. 687.52 (4) Rs. 700

(5) None of these

56. What sum will amount to Rs.6655 at 10% per annum compounded yearly for 3 years?

(1) Rs. 5000 (2) Rs. 3000

(3) Rs. 2500 (4) Rs. 4500

(5) None of these

57. Find the present worth of Rs.9261 due 3 years hence at 5% per annum compounded yearly.

(1) Rs.7000 (2) Rs. 9000

(3) Rs. 10000 (4) Rs. 8000

(5) None of these

58. Rohan invested Rs. 15,000 at the rate 10% per annum for one year. If the interest is compounded half-yearly, then the amount received by Rohan at the end of the year will be

(1) Rs. 16537.50 (2) Rs. 15000

(3) Rs. 16000 (4) Rs. 13000

(5) None of these

59. What will be the difference in the compound interest on Rs.50, 000 at 12% for one year when the interest is paid yearly and half yearly?

(1) Rs. 180 (2) Rs. 200

(3) Rs. 300 (4) Rs. 500

(5) None of these

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

(1) Rs. 150 (2) Rs. 300

(3) Rs. 400 (4) Rs. 121

(5) None of these

61. A sum put out at 4% compound interest payable half-yearly amounts to Rs. 6632.55 in one year and 6 months. The sum is

(1) Rs. 6250 (2) Rs. 5000

(3) Rs. 4000 (4) Rs. 3000

(5) None of these

62. The difference between simple and compound interest on Rs.1200 for one year at 10% per annum reckoned half yearly is

(1) Rs. 5 (2) Rs. 3

(3) Rs. 7 (4) Rs. 8

(5) None of these

63. What will be the difference between simple and compound interest at the rate 10 % per annum on a sum of Rs. 1000 after 4 years?

(1) Rs. 100 (2) Rs. 65

(3) Rs. 150 (4) Rs. 64.10

(5) None of these

64. The difference between the simple interest and the compound interest on Rs.60 for 1 year at 10% per annum, reckoned half-yearly is

(1) Rs. 2 (2) Rs. 1.5

(3) Rs. 3.5 (4) Rs. 3

(5) None of these

65. If the simple interest on a sum of money for 2 years at 5% per annum is Rs.50, what is the compound interest on the same sum at the same rate and for the same time?

(1) Rs. 51.25 (2) Rs. 100.25

(3) Rs. 125 (4) Rs. 130

(5) None of these

66. The compound interest on Rs. 16,000 at 20% per annum for 9 months, compounded quarterly is

(1) Rs. 3000 (2) Rs. 2522

(3) Rs. 3500 (4) Rs. 4000

(5) None of these

67. If the compound interest on a certain sum at 16.66% for 3 years is Rs.1270 , the simple interest on the same sum at the same rate and for the same period is

(1) Rs. 1080 (2) Rs. 1500

(3) Rs. 2500 (4) Rs. 2000

(5) None of these

68. The compound interest on a sum of money for 2 years is Rs.832 and the simple interest on the same sum for the same period is Rs.800. The difference between the compound interest and the simple interest for 3 years will be

(1) Rs. 100 (2) Rs. 98.56

(3) Rs. 125 (4) Rs. 128

(5) None of these

69. 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 per cent per annum is

(1) Rs. 600 (2) Rs. 500

(3) Rs. 800 (4) Rs. 900

(5) None of these

70. On what sum will the compound interest at 5% per annum for two years compounded annually be Rs.1640?

(1) Rs. 15000 (2) Rs. 16000

(3) Rs. 14000 (4) Rs. 12000

(5) None of these

71. What annual rate of interest compounded annually doubles an investment in 2 years?

(1) 41.4% (2) 12%

(3) 13% (4) 15%

(5) None of these

72. The compound interest on Rs.30,000 at 7% per annum is Rs. 1331. The required time period is

(1) 3 years (2) 4 years

(3) 2 years (4) 5 years

(5) None of these

73. A certain sum invested at 4% per annum compounded semi-annually amounts to Rs. 78030 at the end of one year. The sum is

(1) Rs. 85000 (2) Rs.95000

(3) Rs. 80000 (4) Rs. 75000

(5) None of these

74. The difference between the compound interest and simple interest on a certain sum at 3% for 2 years is Rs. 1.50. The sum is

(1) Rs. 700 (2) Rs. 800

(3) Rs. 900 (4) Rs. 1000

(5) None of these

75. The difference between simple and compound interest on Rs.1250 for 2 years at 4% per annum is

(1) Rs. 3 (2) Rs. 4

(3) Rs. 5 (4) Rs. 6

(5) None of these

76. If the compound interest on a certain sum for 2 years is Rs.105 and simple interest is Rs. 100, then the sum is

(1) Rs. 700 (2) Rs. 600

(3) Rs. 800 (4) Rs. 900

(5) None of these

77. The difference between the simple interest and the compound interest compounded annually at the rate of 12% per annum of Rs.5000 for two years will be

(1) Rs. 72 (2) Rs. 100

(3) Rs. 300 (4) Rs. 400

(5) None of these

78. Find the compound interest on Rs.1000 at 6% compounded semi-annually for 6 years?

(1) Rs. 500 (2) Rs. 425.76

(3) Rs. 500 (4) Rs. 425.76

(5) None of these

ANSWERS

1.	1	15.	1	29.	3	43.	2	57.	4	71.	1
2.	4	16.	2	30.	2	44.	4	58.	1	72.	3
3.	2	17.	1	31.	3	45.	5	59.	1	73.	4
4.	4	18.	1	32.	1	46.	5	60.	4	74.	5
5.	2	19.	2	33.	2	47.	5	61.	1	75.	5
6.	2	20.	1	34.	2	48.	1	62.	2	76.	5
7.	1	21.	3	35.	4	49.	5	63.	4	77.	1
8.	1	22.	1	36.	1	50.	4	64.	2	78.	4
9.	2	23.	3	37.	5	51.	2	65.	1		
10.	4	24.	1	38.	2	52.	2	66.	2		
11.	1	25.	2	39.	4	53.	1	67.	1		
12.	1	26.	1	40.	1	54.	5	68.	2		
13.	5	27.	5	41.	5	55.	2	69.	2		
14.	4	28.	1	42.	5	56.	1	70.	2		