

# NTSE WORK SHEET, 2022-23

## SI AND CI

Class –X

Subject -: MATHS

Q.1	How much time will it take for an amount of Rs 450 to yield Rs 81 as interest at 4.5% per annum of simple interest?			
	A) 3%	B) 4%	C) 5%	D) 6%
Q.2	Reena took a loan of Rs 1200 with simple interest for as many years as the rate of the interest. If she paid Rs 432 as interest at the end of the loan period, what was the rate of the interest?			
	A) 3.6	B) 6	C) 18	D) Cannot be determined
Q.3	A man took a loan from a bank at the rate of 12% p.a. simple interest. After 3 years he has to pay Rs 5400 interest only for the period. The principal amount borrowed by him was: Rs			
	A) 2000	B) 10000	C) 15000	D) 20000
Q.4	What is the present worth of Rs 132 due in 2 years at 5% simple interest per annum?			
	A) Rs. 112	B) Rs. 118.80	C) Rs. 120	D) Rs. 122
Q.5	If the rate increases by 2%, the simple interest received on a sum of money increases by Rs 108. If the time period is increased by 2 years, the simple interest on the same sum increases by Rs. 180. The sum is:			
	A) Rs.1800	B) Rs.3600	C) Rs.5400	D) Data inadequate
Q.6	Mr Thomas invested an amount of Rs 13900 divided into two different schemes A and B at the simple interest rate of 14% p.a. and 11% p.a. respectively. If the total amount of simple interest earned in two years be Rs 3508, what was the amount invested in Scheme B?			
	A) Rs.6400	B) Rs.6500	C) Rs.7200	D) Rs.7500
Q.7	A sum of Rs 2600 is lent out in two parts in such a way that the interest on one part at 10% for 5 years is equal to that on another at 9% for 6 years. The sum lent out at 10% is:			
	A) Rs.1150	B) Rs.1250	C) Rs.1350	D) Rs.1450
Q.8	The price of a TV set worth Rs 20000 is to be paid in 20 instalments of Rs 1000 each. If the rate of interest be 6% per annum, and the first instalment be paid at the time of purchase, then the value of the last instalment covering the interest as well will be:			
	A) Rs.1050	B) Rs.2050	C) Rs.3000	D) None of these
Q.9	The simple interest at x% for x years will be Rs x on a sum of:			
	A) Rs.x	B) Rs.100/x	C) Rs. 100x	D) RS.100/x <sup>2</sup>

Q.10	A lender claims to be lending at simple interest, but he adds the interest every 6 months in the calculation of principal. The rate of interest charged by him is 8%. What will be the effective rate of interest?			
	A) 8.16%	B) 6.18%	C) 8%	D) 7%
Q.11	The time required for a sum of money to amount to five times itself at 16% simple interest p.a. will be			
	A) 25years	B) 35years	C) 20years	D) 15years
Q.12	John took a loan of Rs.10000 from a bank on 8th February 2009 at the rate of 5% p.a. and paid back the same on 2nd July 2009. Find the total amount to be paid by John?			
	A) Rs.10197	B) Rs.10197.26	C) Rs.12000	D) Rs.10000
Q.13	A sum amount to Rs.9680 in 2years and to Rs.10648 in 3 years compounded annually. then, the sum and rate of interest respectively are			
	A) Rs.8000,9%	B) Rs.8500,10%	C) Rs.8500,9%	D) Rs8000,10%
Q.14	A man borrows 4,000 at 8% per annum on compound interest. At the end of every year he pays 1,500 as part payment of loan and interest. How much does he still owe to the bank after 3 such annual payments?			
	A) Rs.1799	B) Rs.169.25	C) Rs.2000	D) Rs.234.13
Q.15	If the amounts for a fixed principal after 3 and 2 years at a certain rate of compound interest are in the ratio 21: 20. The rate of interest is			
	A) 7%	B) 6%	C) 5%	D) 4%
Q.16	The cost of a machine is estimated to be decreasing at the rate of 15% every year. If it costs 6,000 now, what will be the estimated value of the machine after 2 years?			
	A) Rs.3750	B) Rs.4335	C) Rs.3225	D) Rs.5000
Q.17	If the compound interest on a certain sum of money for 2½ years at 5% per annum be 104.05, what would be the simple interest?			
	A) 215.75	B) 125.75	C) 100	D) 225
Q.18	Find the compound interest on Rs 6400 for 2 years, compounded annually at 7.5% per annum.			
	A) 1000	B) 996	C) 1006	D) None of these
Q.19	A sum of money doubles itself at compound interest in 15 years. It will become 8 times in			
	A) 40 years	B) 30 years	C) 60 years	D) 45 years
Q.20	The difference between the compound and the simple interest on a certain sum at 7½% per annum for 3 years is Rs 110.70. Find the sum:			
	A) 6400	B) 1200	C) 320050	D) 2400
Q.21	The simple interest on a sum of money is 1/9 th of the principal and the number of years is equal to the rate percent per annum. The rate of interest per annum is __			
	A) 2%	B) 5%	C) 4%	D) $3\frac{1}{3}\%$

Q.22	The present population of a town is 25000. It grows at the rate of 4%, 5% and 8% during the first year, second year and third year respectively. Find its population after 3 years.							
	A)	29484	B)	29844	C)	24984	D)	29848
Q.23	The simple interest on a certain sum of money for 4 years at 4 percent per annum exceeds the compound interest on the same sum for 3 years at 5 percent per annum by 57. Find the sum.							
	A)	24000	B)	12500	C)	26700	D)	23050
Q.24	The value of mobile phone which was purchased 2 years ago depreciates at 12% p.a. If its present value is 9680, for how much was it purchased?							
	A)	10000	B)	12000	C)	11500	D)	12500
Q.25	If the compound interest on a certain sum for 3 years at 20% per annum is Rs.728, find the simple interest.							
	A)	575	B)	600	C)	620	D)	675