OBJECTIVE TYPE (1 Mark)

Q1	The ratio of speed of scooter 36 km/ hour to the speed of car 108 km/ hour is						
	A	1:2	B	1:3	C	1:4	D	None of the above

Q2	The ratio of 10m to 10 km is:						
	A	$\dfrac{1}{10}$	B	$\dfrac{1}{100}$	C	$\dfrac{1}{1000}$	D	$\dfrac{10}{10}$

Q3	The percentage of 3:4 is:						
	A	75%	B	50%	C	25%	D	100%

Q4	If 60% of students are good at science out of 20 students. Then the number of students not good at science is:						
	A	12	B	14	C	16	D	8

Q5	The price of a motorcycle was ₹ 34,000 last year. It has increased by 20% this year. The price of motorcycle now is:						
	A	₹ 36,000	B	₹ 38,800	C	₹ 40,800	D	₹ 32,000

Q6	18% of a class took part in a karate competition. If 18 students have taken part in it, then what is the total number of students in the class?						
	A	50	B	90	C	100	D	180

Q7	On what a discount is calculated?						
	A	Mark price	B	Selling price	C	Profit	D	Loss

Q8	What time period is taken when interest is calculated half yearly?						
	A	Half	B	Twice	C	Same	D	10 times

Q9	If MP of a box is ₹10 and a discount of 10% is allowed then what should be the sale price						
	A	10	B	1	C	5	D	9

Q10	What should be the rate of interest per annum if interest is calculated quarterly?							
	A	One third	B	One-fourth	C	Half	D	Same

	FILL IN THE BLANKS (1 MARK)
Q11	An item marked at ₹ 840 is sold for ₹ 714. The discount % is_____,
Q12	Seema got a 10% increase in her salary. If her salary was ₹ 50,000, then the new salary is_____
Q13	The cost of the article was ₹ 15,500 and ₹ 500 was spent on its repairing. If it is sold for a profit of 15%. The selling price of the article is_____
Q14	Varun bought an Air conditioner for ₹ 33,000 including a tax of 10%. The price of the Air conditioner before VAT was added is_____
Q15	If amount on the principal of ₹ 6000 is written as $6000 \left[1 + \frac{5}{100}\right]^3$ and compound interest payable half-yearly, then rate of interest per annum is_____. and time (in years) is_____

	SECTION B- (2 MARKS)
Q16	By selling an article for ₹ 1,12,000, a company gains 40%. Find the cost price of the article.
Q17	Abida bought 100 pens at the rate of ₹ 12.60 per pen and pays a sales tax of 5%. Find the total amount paid by Abida.
Q18	The cost of a tape recorder is ₹ 10,800 inclusive of sales tax charged at 8%. Find the price of the tape recorder before sales tax was charged.
Q19	Find the (a) SP, if MP = ₹ 5450 and discount = 5% (b) MP, if SP = ₹ 9250 and discount = $7\frac{1}{2}$%
Q20	Prachi bought medicines from a medical store as prescribed by her doctor for ₹ 36.40 including 4% VAT. Find the price of before VAT was added.

	SECTION C- (4 MARKS)
Q21	Raman sells two wristwatches for ₹ 12,00 each. On one wristwatch, he gains 20% and on other he loses 20%. What are the cost prices of each, and what is his total gain or loss percentage in the whole transaction?
Q22	If principal = ₹ 50,000, rate of interest = 10% compounded half-yearly. Find. (a) Interest for 6 months. (b) Amount after 6 months. (c) Interest for 1 year, (d) Amount after one year.
Q23	A new computer costs ₹ 1,00,000. The depredation of computers is very high as new models with better technological advantages are coming into the market. The depredation is as high as 10% every year. How much will the cost of computer be after two years?

Q24	Find the difference between simple interest and compound interest on ₹ 2,400 for 2 years at 5% per annum compounded annually?
Q25	The population of a town is 30000. If the rate of growth is 10% every year. Find the population after 2 years?

ANSWER

1	B 1:3	2	c: $\frac{1}{1000}$	3	A: 75%	4	D: 8
5	40,800	6	C :100	7	A: Mark price	8	B: twice
9	D: 9	10	B: one-fourth	11	15%	12	₹ 55,000
13	₹ 18,400	14	₹ 29,700	15	10% , 1 ½	16	67,200
17	₹63, ₹1323	18	₹ 9,936	19	5,177.5, 9,943.75	20	1.46, 34.94
21	₹ 1000 ,₹ 1500. total loss 4%	22	(a) ₹5,000 (b) ₹55,000 (c) ₹10,500 (d) ₹60,500	23	81,000	24	SI= ₹240, CI=₹246 Diff= ₹6
25	36,000						