



9. An enquiry into the budgets of middle class families in a city gave the following information :

Expenditure on	Food	Clothing	Rent	Fuel	Miscellaneous
Percentage (%)	35	15	20	10	20
Price in 2023 (Rs.)	150	30	75	25	40
Price in 2024 (Rs.)	145	30	65	23	45

Construct cost of living Index Number for 2024 taking 2023 as base year.

10. A manufacturer of an article spends Rs. 1,200 on raw materials, Rs. 800 on labour and Rs. 500 on marketing and other expenses. Find the list price if he wants to make a profit of 26% after giving a discount on 10%.
11. A sum of money amounts to Rs. 1,326 in 6 years at 5% simple interest. At what time it would amount to Rs. 1,530 ?
12. From the following data compute Quartile Deviation and its coefficient.

X	20	22	25	28	32	36	40	44	50
f	18	22	30	24	30	15	10	6	3

SECTION – C

Answer **any two** of the following questions :

(16×2=32)

13. Compute Mean, Median and Mode from the following data :

Income (Rs.)	No. of Employees
0 – 50	40
50 – 100	175
100 – 150	280
150 – 200	490
200 – 250	380
250 – 300	200



14. Following are the runs made by two cricketers in 10 innings.

Innings	1	2	3	4	5	6	7	8	9	10
Cricketer A	31	48	13	51	38	43	50	36	47	82
Cricketer B	51	5	12	83	37	112	42	18	79	20

Find out :

- a) Which of the two cricketers is better scorer ?
 - b) Which of them is more consistent ?
15. a) The sum of two numbers is 80 and its difference is 8. Find the numbers and their ratio. 8
- b) If 35 men can finish a piece of work in 8 days, in how many days can 20 men complete the same work ? 8
16. Calculate Laspeyres's, Paasche's and Fisher's index numbers for the following data :

Commodity	Price (Rs.)		Quantity	
	2023	2024	2023	2024
A	16	40	100	120
B	4	12	30	20
C	2	4	40	50
D	4	10	20	16
E	2	10	80	60