

# HERAMB COACHING CLASSES

**XI/MATHS****Marks: 30****Duration: 1Hour****Date: 07-03-2019**

Attempt any 6 from the following:

Q.1 Calculate the value index number by using simple aggregate method:

Commodity	Base year		Current year	
	Price	Quantity	Price	Quantity
A	30	13	40	15
B	40	15	70	20
C	10	12	60	22
D	50	10	90	18
E	20	14	100	16

Q.2 Find x, if the Prize Index Number by simple aggregate method is 125.

Commodity	A	B	C	D	E
Base year price (in Rs.)	10	8	12	24	18
Current year price (in Rs.)	14	10	x	28	22

Q.3 If  $\sum p_0 q_0 = 140$ ,  $\sum p_0 q_1 = 200$ ,  $\sum p_1 q_0 = 350$  and  $\sum p_1 q_1 = 460$ .

Q.4 Find x, if Laspeyre's Price Index Number is equal to Paasche's Price Index Number.

Commodity	Base year		Current year	
	Price	Quantity	Price	Quantity
A	2	10	2	5
B	2	5	x	2

Q.5 Calculate the cost of living index:

Group	Base year		Current year
	Price	Quantity	Price
Food	120	15	170
Clothing	150	20	190
Fuel and Lighting	130	30	220
House rent	160	10	80
Miscellaneous	200	12	100

Q.6 Find x, if cost of living index is 150.

Group	Food	Clothing	Fuel and Lighting	House rent	Miscellaneous
I	180	120	300	100	160
W	4	5	6	x	3

Q.7 The cost of living index number of the year 1996 and 1999 are 140 and 200 respectively. A person earns Rs. 11,200 p.m. in the year 1996. What should be his earnings p.m. in the year 1999 so as to maintain his former (that is of the year 1996) standard of living?

