Assignment IV

Topic: - Diagrammatic Presentation

Q1 Discuss the advantages of diagrammatic presentation?

Q2 Represent the following data with the help of sub-divided bar diagram:

Year	Production (In '000 tonnes)		
	Wheat	Rice	Cotton
2002	35	22	10
2003	15	25	16
2004	40	12	20

Q3 Represent the data relating to the cost of production in a factory by means of percentage diagram:

Element of cost (Rs in '000)	Items		
	A	B	C
Raw Materials	75	55	60
Wages	45	30	25
Factory overheads	15	10	30
Office overheads	5	15	5

Q4 Represent the following data with help of pie diagram.

Items	Rent	Food	Clothing	Transportation	Recreation	Savings	Others
Expenditure (in percent)	20%	25%	22%	15%	8%	6%	4%

Q5 What is the main difference between a frequency polygon and a frequency curve?

Q6 Distinguish between histogram and bar diagram.

Q7 Present the following data in the form of frequency polygon, using histogram.

Daily wages (Rs.)	60-80	80-100	100-120	120-140	140-160	160-180	180-200
No. of workers	3	5	10	15	7	4	2

Q8 Draw a less than Ogive from the following data:

Marks	30-40	40-50	50-60	60-70	70-80	80-90	90-100
No. of students	12	14	18	21	15	11	9

Q9 Make histogram and frequency polygon from the following distribution:

Class – interval	0-20	20-30	30-40	40-60	60-100
Frequency	10	4	6	14	16

Q10 Present the data given in the table below in the form of histogram

Mid point	15	25	35	45	55	65	75
Frequency	5	12	20	18	16	25	22

Assignment V

Economics (XI/Eco/9.2/2014)

Topic: - Measures of Central Tendency – Arithmetic Mean

Q1 State three merits and two demerits of Arithmetic mean.

Q2 State the formula (short-cut method) for calculating mean in case of individual series, discrete series and continuous series.

Q3 Explain the mathematical properties of Arithmetic mean.

Q4 Compute mean marks from the data given below by (i) Direct method (ii) Short-cut method and (iii) Step deviation method.

Marks	5	15	25	35	45	55	65
Students	4	6	10	20	10	6	4

Q5 Find the mean from the following data:

Marks	No. of students
Less than 10	5
Less than 20	20
Less than 30	45
Less than 40	70
Less than 50	80
Less than 60	88
Less than 70	98
Less than 80	100

Q6 Calculate mean from the following data

X	0-10	10-20	20-30	30-60	60-90
Frequency	5	9	20	12	4

Q7 The mean weight of 150 students in a class is 60 kg. The mean of boys in the class is 70 kg and that of girls is 55 kg. Find the number of boys and girls in the class.

Q8 Find out the median for the following data:

Age (in years)	No. of persons
10-20	8
10-30	32
10-40	54
10-50	58
10-60	66
10-70	80

Q9 Compute median from the following data:

Mid values	37.5	42.5	47.5	52.5	57.5
No. of Students	30	20	15	13	22

Q10 Determine teh value of median from the following data with the help of (i) less than and more than Ogive method (ii) Less than Ogive method (iii) More than Ogive method.

Marks	0-10	10-20	20-30	30-40	40-50	50-60
No. of students	10	15	25	30	10	10

Q11 Calculate the median, lower quartile and upper quartile from the following data:

Marks	58	59	60	61	62	63	64	65	66
No. of Students	2	3	6	15	10	5	4	3	1

Q12 Calculate upper and lower quartile from the following data:

Variable	0-10	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	10	20	35	40	25	25	15