Class: F.Y BFM DATE: 29.09.2015 Date: Tinding: 8 70	Total Marks: 75
Date: Timing: 8.00 am to 10.30 am	Time: 2 1/2 Hours
SUB: BASIC STATISTICS	
Note: 1. All Questions are compulsory.	
2. Figures to right indicate full marks	
Q1.	
A) Fill in the blanks	5 Marks
 Statistical method of data is	
2requires more time. a. Primary data b. Secondary data c. Raw data d. None of the above	
 Jata is classified according to charincome. a. Qualitative b. Quantitative c. Both a and b d. None of the above 4 Is a type of graph a. Histogram b. Geographical base c. Both a and b d. None of the above 	
5. Which of the following is not a measure of b) Mode c) Median	n d) Standard Deviation
a) Mean b) Mode c) Median	

5 Marks

A

1. Mean

2. Class mark

3. Graphs

4. Real income

5. Bonus

Profit given on policy

Deflated income

Pictorial Representation

1/2(lower limit + upper limit)

Measure of central tendency

C) True or false

- The year selected as a reference period for comparison is called current year
 If the class intervals are of unequal width we find frequency to draw the histogram
- 3. No. of members in a family is an example of continuous distribution

4. Standard Deviation is a measure of Central Tendency

5. If the class intervals are of unequal width we find frequency to draw the histogram

Q2.

A) Draw histogram and frequency polygon on the same graph

8 Marks

5 Marks

Class Interval	10-10	10-20	20 - 30	30 - 40	40 - 50	50 - 60
Frequency	10	12	15	25	10	8

B) Calculate the arithmetic mean for the following frequency table 7

7 Marks

class interval	Frequency
20-30	8
30-40	26
40-50	30
50-60	20
60-70	16

OR

C) Compute the Median for the following frequency distribution. Also calculate Q1, Q3 and P72

15 Marks

Class Interval	20 - 3()	30 - 40	40 – 50	50 - 60	60 - 70	70 - 80	80 - 90	90 -
Frequency	4	12	14	16	20	16	10	200

Q3.

A) Calculate the range and co-efficient of range for the following data giving the sales of a shop for a week

Sales in Rs. 160, 130, 125, 127, 143, 150, 155

8 Marks

B) Calculate coefficient of Rank Correlation from the following data

7 Marks

No. Of Hours		No. of Minutes	
-	2		9
-	1.5		9.25
-	2.5		8.3
-	1.75		8.1
-	2.75		8.2
	3		7
	1.6		8.8

OR

C) Find trend values using 3 yearly moving averages

15 Marks

R. 107: T	4070	1072	1074		-			
Bank Clearance 197	19/2	19/3	19/4	1975	1976	1977	1978	1070
ance 60	61	63	62	52			1370	19/9
Glearance 60	01	03	02	62	64	63	64	65

Q4.

A) From a group of 10 boys and 6 girls a committee of 3 boys and 2 girls is to be selected. In how many ways it can be done?

8 Marks

B) A box contains 20 tickets numbered from 1 to 20. A ticket is drawn randomly from the box. Find the probability that the number on the ticket is

7 Marks

- i) Divisible by 5
- ii) Not divisible by 2
- iii) Divisible by 3 and 4
- iv) Divisible by 3 or 4

OR

C) Construct index number using following method (i) Laspeyres (ii) Paasches (iii) Fischers

(iv) Dayling and the second second

(iv) Dorbish Bowly (v) Marshall Edgeworth

	Base Year		Current Y	ear
Commodity	Deigo	Quantity	Price	Quantity
A	Price	3	4	6
В	2	10	6	5
C	100	14	5	10
	4	19	2	13

Q5

A) What is vital statistics, its uses, method of collecting it and also explain measurement of population.

15 Marks

OR

B) Short Notes (Any 3)

15 Marks

- 1. Types of Index numbers
- 2. Statistical methods
- 3. Limitations of statistics
- 4. Characteristics of statistics
- 5. Elements common to decision theory problems