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Total Number of Pages: 02

MAM
IMB103

1st Semester Back Examination 2017-18

BUSINESS STATISTICS

BRANCH : MAM

Time: 3 Hours

Max Marks: 70

Q.CODE: B907

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

Q1 Answer the following questions : (2 x 10)

- Explain three uses of statistics
- What are the requirements of statistical units?
- Name the main sources of secondary data.
- If $byx = -0.2$, $bxy = -0.4$. Find out correlation between x and y.
- Explain limitations of Geometric mean.
- What is the relation between 1st quarter, Median and 3rd Quarter.
- If mean=55, mode=50, S.D=22, What is the value of coefficient of skewness.
- The S.D of 100 observation is 75. If 5 is added in each observation, What will be the new S.D.
- Find the standard deviation of first 20 natural numbers.
- Why absolute measures are not so useful in skewness?

Q2 a) Find mean, median and mode of the following information : (5)

X	100-200	100-300	100-400	100-500	100-600
f	15	33	63	83	100

b) From the following information calculate Harmonic Mean. (5)

Mid Value	15	25	35	45	55
f	30	75	70	135	220

Q3 a) Calculate Quartile deviation for the following data (5)

X	0-10	10-20	20-30	30-40	40-50
f	22	38	46	35	20

b) Explain merits and demerits of Mean deviation. (5)

Q4 Fill in the blanks: (10)

	Series I	Series II	Series-III	Combined
No.of Observation	50	?	90	200
Mean	113	?	115	116
Standard Deviation	6	7	?	7.746

Q5 Discuss the meaning and scope of Statistics bringing out its importance particularly in the field of business.? (10)

Q6 What do you mean by classification and tabulation ?Discuss their importance. (10)

- Q7 a)** From the following information, find out correlation between X and Y. If $n=8$, Mean of $X=5$, Mean of $Y=4$, $\sum X^2=300$, $\sum Y^2=200$, $\sum (X+Y)^2=900$ **(5)**

- b)** From the following information Find out two regression equation. **(5)**

X	4	6	9	12	15
Y	6	8	9	10	11

- Q8** The arithmetic mean and standard deviation of a series of 20 observations were 20 and 5 respectively. Later on it was found that 13 was misread as 30. Find corrected mean and standard deviation. **(10)**