

Roll No.....

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BBA/M-15

BUSINESS STATISTICS-II

Paper-BBA-210

Time allowed: 3 hours]

[Maximum marks: 80

Note: Attempt **Five** questions in all. Question No.1 is compulsory. All Questions carry equal Marks.

Compulsory Question

1. Explain the following with illustration:
 - (a) Rank correlation
 - (b) Conditional probability
 - (c) Complementary events
 - (d) Moving average
 - (e) Two tail test
 - (f) T-test.
2. (a) What is mean by 'Regression Analysis'? Why there should be two regression lines for bivariate distribution?
(b) From the data given below find the two Regression lines:
Marks in Eco: 25 28 35 32 31 36 29 38 34 39
Marks in Stat: 43 46 49 41 36 32 31 30 33 39
3. The following table shows the trend of admissions to cinema course and the growth of T.V. sets in a locality during 1984-1990. Calculate the product moment correlation coefficient between the two variaties:

Years:	1984	1985	1986	1987	1988	1989	1990
Admission (in 000):	13	12	9	9	8	6	6
No. of TV Sets:	54	53	57	61	67	72	70

4. The Probability that a contractor will get a plumbing contracting is $\frac{2}{3}$ and probability that he will not get on electric contract is $\frac{5}{9}$.
5. An Urn contains four balls. Two balls are drawn at random and are found to be white. What is the probability that all the balls are white?

6. What do you mean by 'Reasonal variations' in the series data? Explain with example. Explain methods of determining reasonal fluctuations of a given time series.
7. (a) What steps are involved in statistical testing of a Hypothesis?
(b) How Microsoft excel can help in Statistical analysis of data? Explain.
8. The mean weekly sales of the chocolate bar in candy Stores was 146.3 bars per store. After an advertising campaign the mean weekly sales in 22 stores for a typical week increased to 153.7 and showed a Standard Deviation of 17.2. Was the advertising campaign successful?