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Max.Marks:75

Code No: 741AD JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD MBA I Semester Examinations, April/May-2019 **BUSINESS STATISTICS**

Note: This question paper contains two parts A and B.

Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b, c as sub questions.

- PART A 5×5 Marks = 25
- 1.a) The mean height of 25 male workers in a factory is 61 inches and the mean height of 35 female workers in the same factory is 58 inches. Find the combined mean height of 60 workers in the factory. [5] Distinguish between mean deviation and standard deviation. [5] b) Write about parts of a Table? [5] c) Explain about F-test. d) [5] [5]
 - Write the characteristics of Index Numbers. e)

PART - B

2. Define statistics? Write the uses and limitations of statistics? OR 3. Compute the missing frequency from the following data?

1	0 1			U		
Income (rs)	0-10	10-20	20-30	30-40	40-50	50-60
No of persons	5	15	20	-	20	10

4. Calculate karl pearson's co-efficient of co-relation from the following data? [10]

5. Compute Bowley's co-efficient of skewness for the data given below:

1	-				0			
Marks	0-10	10-20	20-30	30-40	40-50	50-60	60-70	70-80
No of								
Students	8	10	12	40	56	44	26	4

6. Define Diagram. Explain the types of Diagrams and brief on methods of data tabulation. [10]

OR 7. Briefly explain the properties and applications of t-Distribution? [10]

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student roll no 1 2 3 4 5 Marks in accounts 48 35 17 23 47 45 20 40 25 45 Marks in statistics OR

[10]

[10]

 5×10 Marks = 50

[10]



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- 8. Explain the procedure for testing the hypothesis? [10] **OR** 9. From the following information construct two regression equations. [10] X = 68, Y = 150, $\sigma x = 2.5$ $\sigma y = 20$ r = 0.60
- 10. Fit a straight line trend for the following series. Estimate the value for 2012: [10]

Year	2001	2002	2003	2004	2005	2006	2007
Production of	60	72	75	65	80	85	95
steel (tonnes)							

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11. Construct index numbers of price from the following data by applying laspeyres and paasche methods. [10]

Commodity	200)6	2007		
	Price	Quantity	Price	Quantity	
А	2	8	4	6	
В	5	10	6	5	
С	4	14	5	10	
D	2	19	\sim^2	13	