Roll No:

Hi-Tech Institute of Engineering & Technology

DEPARTMENT OF MANAGEMENT

Course: BBA

(SEM-2nd) EVEN SEMESTER MODEL PAPER 2022-23

Subject Code: BBA-201 **Subject Name: Quantitative Techniques for Business**

Faculty Name: Mr. Vinay Kumar Agarwal

Time: Three Hours

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION-A

Attempt all question in brief.

Q.No Question Marks **Define Probability?** 3 a. Give the meaning and definition of classification? 3 b. Define the term of Histogram and Frequency Polygon? 3 c. Calculate the range and its coefficient from the following data: -3 d. 20, 8, 0, -30, -5, 4 Explain Various Mathematical properties of standard deviation? 3 e.

SECTION-B

Attempt any TWO of the following:

2 x 7.5 =15

Q.No	Question									
a.	If the arithmetic mean of the following frequency distribution is 39.25, find the following missing Terms?									
	Daily Wages	25	30	35	50	60	75			
	No. of Labour	10	?	13	8	5	4			
b.	Discuss the Merits and Demerits of Karl Pearson's Coefficient of Correlation?									
C.	What are the uses of coefficient of variation in Statistical Analysis? Discuss.									

3x 5 = 15

Total Marks: 75

SECTION-C

Attempt any Three parts of the following:

3x15 = 45

Q.No	Question								Marks	
1.	What is an Index Number? Explain the Terms Price Relative, Quantity Relative and Value Relative. Discuss in brief the uses of an Index Number?									
2	Calculate Karl Person's Coefficient of Correlation from the following data and									
	interpret it:									
	Age of Husband	25	26	27	28	30	32	35		
	Age of Wife	20	22	24	25	26	27	31		
3.	Define Probability and explain the importance of the concept in statistics?									
4.	Define Classification and explain in brief the various types of classifications?									
5.	From the Following data obtain the two Regression Equations:									
	Sales	Pur	chases							
	91	71 75 69								
	97									
	108									
	121	97 70 91								
	67									
	124									
	51	39 61								
	73									
	111	80								
	57 47									
		1		I						