



**Institute of Management
JK Lakshmipat University
Jaipur**

END TERM EXAMINATION (NOV. - DEC. 2017)

BBA I/ B.com. I Sem- I/ Odd

Course: Fundamentals of Statistics.

MM: 50 Marks

Time: 3 Hours

Subject code: QT04

Instructions: Attempt any three questions from Section A. Section B is compulsory.

Section A

Q1. Briefly discuss the essential parts of a table. Draw a specimen table explaining the various parts of a table. (10 marks).

Q2. Calculate Mean, Median and Mode of the given frequency distribution.

Class	93-97	98-102	103-107	108-112	113-117	118-122	123-127	128-132
Frequency	3	5	12	17	14	6	3	1

(10 marks).

Q3. Compute the Mean Deviation from Median and Mean from the following data:

Class	140-150	150-160	160-170	170-180	180-190	190-200
Frequency	4	6	10	10	9	3

(10 marks).

Q4. a) Discuss the various terms used in regression analysis. (2 marks)

b) Calculate pearsonian coefficient of correlation:

X	43	44	46	40	44	42	45	42	38	40	42	57
Y	29	31	19	18	19	27	27	29	41	30	26	10

(8 marks).

Q5. a) What is an Index number? Briefly discuss the types of Index numbers.

(3 marks)

b) From the following data, construct Fisher's Ideal Price Index Number as well as Laspeyre's PIN and Paasche's PIN.

Commodity	Base Year		Current Year	
	price	quantity	price	Quantity
A	5	25	6	30
B	10	5	15	4
C	3	40	2	50
D	6	30	8	35

(7 marks)

Section B

Q6. a) Obtain the equations of the two lines of regression for the given data:

Height of Son (In)	65	66	67	67	68	69	71	73
Height of Father (In)	67	68	64	68	72	70	69	70

(12 marks)

b) Briefly discuss the various methods of constructing index numbers. (8 marks)