

SMT. S. I. PATEL IPCOWALA COLLEGE OF COMMERCE, PETLAD
B.COM SEM-IV BUSINESS STATISTICS-II UB04CCOM 05

DATE-26-02-2019, WEDNESDAY TIME: 9:45 TO 10:45 TOTAL MARKS: 30

Que.1

(a) Which are the various methods for studying Correlation ? Explain any one.

(b) Find Four Yearly Trend and Short time fluctuation.

Year	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919	1920
Index No.	406	520	936	573	488	596	1016	638	563	677	1089

O.R

(a) What is mean by Analysis of Time Series? Explain in brief long term components of Time Series.

(b) Find Rank Correlation.

X	67	62	50	60	50	45	42
Y	80	80	65	80	40	65	40

Que.2

(a) Define Index Number and how it is useful in Real life?

(b) Find Laspeyre's , Paasche's and Fisher Index number and prove that Fisher Index number is an ideal one.

Item	P ₁	q ₁	P ₀	q ₀
A	10	60	6	50
B	2	50	2	40
C	6	120	4	100
D	30	24	10	12

O.R

(a) Find Index Number by Family Budget Method.

Item	A	B	C	D
Price of 2010	20	4	0.50	10
Price of 2011	15	4.75	0.75	12
Weight	20	10	10	10

(b) Find Correlation of Coefficient and Interpretate.

X	48	49	50	51	52	53	54	55	56
y	98	100	88	102	95	125	120	110	125