

SMT.S.I.PATEL IPCOWALA COLLEGE OF COMMERCE, PETLAD
M.COM SEM-II BUSINESS RESERCH METHODS PB02ECOM 27

DATE-20-02-2019, WEDNESDAY TIME: 9:45 TO 10:45

TOTAL MARKS: 40

Que.1

- (a) What is mean by Analysis of variance? Explain one way classification.
 (b) Using Lagrange's Method estimate for $x=35$.

X	25	30	40	50
Y	52	67.3	84.1	94.4

O.R

- (a) Perform Two Way Analysis of variance for the following data :
 At 5 % level of significance table value is $F_{(2,9)} = 4.26$. Use coding method by taking 58.

	1	2	3	4
A	56	54	58	56
B	58	55	60	59
C	57	56	56	59

- (b) Find Rank correlation coefficient and interpret.

X	28	27	26	35	39	42	39	37	32	22
Y	40	42	38	49	40	50	38	44	45	36

Que.2

- (a) What is mean by Non Parametric Tests? Give advantages and limitations of it.
 (b) Using Newton's Method estimate for 60-70.

X	20-40	40-60	60-80	80-100	100-120
Y	250	120	100	70	50

O.R

- (a) Differentiate between Large Sample and Small Sample Tests.
 (b) The performance in examination of 100 students is given below:

	1 st class	2 nd class	3 rd class	Total
Boys	10	28	12	50
Girls	20	22	8	50
Total	30	50	20	100

Can it be said that performance depends upon gender? At 2 d.f and 5% level of significance table value of χ^2 is 5.99.