

DOON UNIVERSITY, DEHRADUN

Mid Semester Examination, First Semester, 2014

School of Management

MBA (2 yrs. I Sem.)

Course: MMS-504: BUSINESS STATISTICS & RESEARCH METHODOLOGY

Time Allowed: 1.5 Hours

Maximum Marks: 30

Note: Attempt All Sections A, B, C.

SECTION: A Attempt any five questions

(Marks: 1*5)

Write short notes on the following:

- 1. Range
- 2. Median
- 3. Standard Deviation
- 4. Central Tendency
- 5. Regression
- 6. Type I and Type II error.

SECTION: B Attempt all questions

(Marks: 2*5)

Q1. Calculate Standard deviation from the following discrete frequency distributions.

Size (X)	4	5	6	7	8	9	10
Frequency	· 2	12	15	28	20	14	5

Q2. Calculate Median and Mean Deviation from the following data.

Class	10-20	20-30	30-40	40-50	50-60	60-70
Frequency	8	12	25	45	11	9

Q3. Using the following data obtain two regression equations.

x	14	19	24	21	26	22	15	20	19
у	31	36	48	37	50	45	33	41	39

- Q4. What do you understand by correlation? Discuss various types of correlation.
- Q5. Define hypothesis. Discuss various types of hypothesis & steps involved in testing hypothesis.

Q1. Calculate correlation coefficient between age of husband & wives in the following:

Age of Husbands	Age of Wives								
	10-20	20-30	30-40	40-50	50-60	Total			
15-25	6	3		-		9			
25-35	3	16	10		-	29			
35-45		10	15	7	-	32			
45-55	-		7	10	4	21			
55-65	-	<u>-</u>	-	4	5	9			
Total	9	29	32	21	9	100			

Q2. Use chi-square test to find out whether there is any association between economic condition at home and I.Q.

Economic	~ ****	I.Q.	
Condition	High	Low	Total
Rich	460	140	600
Poor	240	160	400
Total	700	300	1000

Tabulated value of chi-square at 5 % level of significance is 3.84