



24-12-2015

DOON UNIVERSITY, DEHRADUN

Final Examination, 2015

School of Management

(MBA I Semester)

Course: MBA 504 RESEARCH METHODOLOGY AND BUSINESS STATISTICS

Time Allowed: 3 Hours

Maximum Marks: 50

(Note: Attempt all Sections)

Section A

(10)

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

Age of Husbands	Age of Wives					Total
	10-20	20-30	30-40	40-50	50-60	
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	-	-	-	4	5	9
Total	9	29	32	21	9	100

Section B

(2*5)

Write short notes on the following:

1. Index Number
2. Time Series
3. Multiplication Theorem
4. Regression Equations
5. Dispersion

Section C

(7.5*4)

Attempt any four questions:

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

Economic Condition	I.Q.		Total
	High	Low	
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

2. What do you understand by Hypothesis? Elaborate the steps involved in testing Hypothesis.
3. What is meant by central tendency? Discuss the various methods of determining central tendency.
4. Calculate mean, standard deviation & median from the following data:

Variable	1000	1500	800	2000	2500	1800
Frequency	24	26	16	20	6	30

5. Define correlation. Discuss various types of correlation & methods of determining correlation.