



28/5/2014

DOON UNIVERSITY, DEHRADUN
Semester Final Examination, Second Semester, 2014
School of Management

IMBA-5 years
Course: IMBA-205: BUSINESS STATISTICS

Time Allowed: 3 Hours

Maximum Marks: 50

(Note: Attempt All Questions from Sections A, B and C.)

Section-A (16 Marks)

Q1. Following results, relating to immunization from T.B. of animals have been obtained in an experiment.

	DIED OR AFFECTED	UNAFFECTED	TOTAL
INOCULATED	12	24	36
NOT INOCULATED	16	8	24
TOTAL	28	32	60

Test the effect of inoculation on the control of TB. Given value of chi- square is 5.99

Section-B (2*5 Marks)

Q. Write short notes on the following:

1. Addition and Multiplication theorem.
2. Methods to construct index number.
3. Components of time series.
4. Regression.
5. Range.

Section-C (2*7.5 Marks)

Q1. What is correlation? Explain various types of correlation and various methods of studying correlation.

OR

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

Q2. What do you understand by hypothesis? Discuss various types of hypothesis and steps involved in testing hypothesis?

OR

Q2. Calculate Mean, Median, standard deviation & coefficient of skewness from the following data:

Marks:	30-40	40-50	50-60	60-70	70-80	80-90
No. of Students:	18	37	45	27	15	8

Q3. What is meant by central tendency? Discuss the various measures of dispersion.

OR

Q3. A bag contains 30 balls numbered from 1 to 30. One ball is drawn at random. Find the probability that the number of ball is a multiple of 5 or 8.