

Code No: E5103

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

MBA – I Semester Examinations, February -2012

RESEARCH METHODOLOGY AND STATISTICAL ANALYSIS

Time: 3hours

Max. Marks: 60

**Answer any five questions
All questions carry equal marks**

1. Why is the methodology of doing research is important? What are some important elements of Research Methodology?
2. Explain the basic difference between probability and non – probability sampling techniques.
3. What kind of input data is required for multidimensional scaling? What is the minimum sample size required to perform multidimensional scaling?
4. For a certain frequency table, which has only been partly reproduced here, the mean was found to be 1.46. Calculate the missing frequencies.

Number of accidents	0	1	2	3	4	5
Frequency (No. of days)	46	?	?	25	10	5

5. You are supplied the following data about heights of boys and girls in a college.

	Boys	Girls
Number	3372	4538
Average height	68 inches	61 inches
Variance	296	456

- i) Combined average of height of boys and girls.
 - ii) Co – efficient of variation of each group.
6. Following is the distribution of students according to their heights and weights.

Heights in (inches) (Weight in Lbs)

	90-100	100-110	110-120	120-130
50-55	4	7	5	2
55-60	6	10	7	4
60-65	6	12	10	7
65-70	3	8	6	3

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Calculate i) The two coefficients of regression ii) Obtain the two regression equations.

7. An IQ test was administered to 5 persons before and after they were trained. The results are given below.

Candidates	I	II	III	IV	V
IQ before training	110	120	123	132	125
IQ after training	120	118	125	136	121

Test whether there is any change in IQ after the training programmes.

8. Explain the following with suitable examples.
- a) Statistic and Parameter
 - b) Critical region
 - c) Standard Error

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