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Roll No .....

## MAM - 401

### Master of Applied Management (Dual Degree), IV Semester

Examination, June 2016

### Research Methodology

Time : Three Hours

Maximum Marks: 70

**Note :** Attempt any five questions. All questions carry equal marks. Draw neat diagrams wherever required.

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1. a) Define research and discuss the objectives of research in detail.  
b) How do you identify a research Problem? Discuss the steps involved in the investigation process.
2. a) Statistical analysis and modeling plays a vital role in research - Justify.  
b) Define multivariate analysis and give any four examples.
3. a) Describe the steps in sample design.  
b) The heights in inches of 30 students are as follows:  
66, 68, 65, 70, 67, 64, 68, 64, 66, 64, 70, 72, 71, 69, 69, 64, 67, 63, 70, 71, 63, 68, 67, 65, 69, 65, 67, 66, 69, 67  
Prepare a frequency distribution table showing relative frequency, cumulative frequency and percent frequencies.
4. a) Differentiate between the descriptive and analytical research methods.  
b) A random sample of 200 measurements from an infinite population gave a mean value of 50 and a standard deviation of 9. Determine the 90% confidence interval for the mean value of the population.
5. a) How questionnaire is designed? Discuss its methods.  
b) Discuss types of hypothesis in design and analysis of experiments.
6. a) List scaling techniques. Discuss types of scales used in measurement and data collection.  
b) Discuss the format of thesis and dissertation.
7. a) Mention the different types of reports, particularly pointing out the difference between a technical report and a popular report.  
b) Describe, in brief the layout of a research report, covering all relevant points.
8. Write short note on following: (Any two)
  - a) Research reviews
  - b) Census and sample survey
  - c) Use of Excel in research
  - d) Stages of Project

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