



Institute of Health Management Research

PGDHM Batch XVIII (2013-2015) - First Year
Research Methods
Final Examination

Date: 12/03/2014

Total Marks: 70

Time: 3 hours

Roll No.

Note:

- a. All the sections are compulsory.
- b. Marks are indicated against each question.
- c. Section A of the paper to be submitted after 30 minutes from the start of the exam.
- d. Attach the examination paper with the answer sheet.

Section A

Kindly Circle the correct option.

(10 * 1 = 10 marks)

1. What is a sampling frame?
 - a) A frame that reflects the number of the population under investigation
 - b) A framework that displays a random set of numbers
 - c) A list of all the units in a population from which a sample will be selected
 - d) None of the above
2. The non-equivalent control group pretest-posttest design allows a researcher to assess the effects of an independent variable by examining change from pretest to posttest.
 - a) True
 - b) False
3. Our job as researcher(s) is to eliminate _____ as a factor contributing to differences between groups.
 - b) Chance
 - d) Change
 - f) The hypothesis
 - h) An average score

4. Researcher is interested in studying the relationship between gender differences and verbal ability. This is an example of what type of research?
 - a) Descriptive
 - b) Quasi-experimental
 - c) Correlation
 - d) Gender research
5. Why is it important to write a research proposal before you begin your research project?
 - a) It gets students started on their research project
 - b) It will help the students to find evidence for their research questions
 - c) It will support them to analyze their research questions in depth
 - d) It will provide an in depth explanation of their used research methods
6. You wish to make a precise estimate about the characteristics of a population of individuals. You should use:
 - a) quota sampling
 - b) probability sampling
 - c) accidental sampling
7. Which of the following variables does NOT have ratio scale properties?
 - a) job satisfaction rating
 - b) reaction time to respond when a stimulus is presented
 - c) distance (in inches) that two people stand from each other when conversing
8. The number of people who complete a survey in relation to the number of people contacted to participate is called the:
 - a) response set
 - b) response rate
 - c) response bias.
9. A researcher developed a measure of shyness and is now conducting a study asking whether this measure does in fact assess a person's true state of shyness. This is a question of:
 - a) Reliability
 - b) Construct validity
 - c) Content validity
10. If a researcher is studying the effect of using laptops in her classroom to ascertain their merit and worth, she is likely going to employ which type of research methodology?
 - a) Applied
 - b) Experimental
 - c) Survey



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Section B

Attempt any **three** from the following:

(3 * 10 = 30 marks)

- Despite significant progress in family planning, India is growing fast in terms of population size and will soon overtake China. How to control the population growth? Explain possible approaches towards this problem.
- Define Validity and reliability with the help of an example. If a researcher has to choose between validity and reliability in the research work, which should be given a priority and why?
- Explain types of Intervention study designs
- Classification of probability and non-probability sampling with its advantages and limitations
- Methods of quantitative data collection with its tool
- Refer to your proposal as class assignment, develop the informed consent format to be used for one of the category of proposed respondents

Section C

A researcher wants to estimate the proportion of children malnourished in a district. Data from one of the reports on nutrition suggest that 38% children are malnourished at the state level. Calculate the sample size required to conduct a survey on the above issue considering the 10% non-response. (Confidence level at 95%, margin of error at 5%). Also state the reasons for considering non-response.

(10 marks)

Section D

Prepare a project proposal outline on any one of the following: "Role of employee satisfaction in influencing patient satisfaction/Measuring satisfaction with public health care system (Adolescents Health Clinics) among adolescents".

(20 marks)