

Research Methods

Time: 3 Hrs

M.M-70

Roll. No.-----

Note:

- a. All the sections are compulsory.
- b. Marks are indicated against each question.
- c. Attempt section A in the question paper.
- d. Attach examination paper with the answer sheet.

Section A

Q. 1 Circle the correct option.

(10 * 1 = 10 marks)

1. There is no relationship between children's time in day care and later academic achievement. This is an example of which of the following?
 - a. A research question
 - b. A factorial design
 - c. A correlation
 - d. A null hypothesis
2. A 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
3. What is not a necessary part of a research proposal?
 - a. Literature review
 - b. A Gantt chart/ work plan
 - c. Outline of the research methods that you plan to use

4. 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
5. Asking people whether they wish to participate in a study after telling them all of the potential risks and benefits is called informed consent.
 - a. True
 - b. False
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 is most likely to yield qualitative data?
 - a. Mail survey
 - b. Focus group
 - c. Telephone interview
8. 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
9. The nonequivalent 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
10. After conducting a statistical test, you conclude that the mean score of males differ significantly from the mean scores of females. You have:
 - a. Rejected the null hypothesis
 - b. Accepted the null hypothesis
 - c. Made a type 1 error

Section B

- Q. 2** 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? How does a health manager approach to this problem of the health sector? Which is the most appropriate approach and why?*
 - Explain types of interventional study types with the help of example.
 - Ethical considerations researcher need to take in to account while conducting research
 - Define validity and reliability, major threats to validity and measures to overcome the threats
 - Methods of quantitative collection with respective tool
 - Compare of basic research designs based on the parameters given in the below table; (do it in the question paper)

Parameter	Exploratory	Descriptive	Causal
Objective			
Characteristics			
Methods			
Research findings			

Section C

- Q. 3** In the "Save the life of children" project, it has been estimated that roughly 41% of the children in the project area suffer from chronic malnutrition. This figure has been taken from national statistics on malnutrition in rural areas. Calculate the sample size to conduct a survey on the above issue considering the 5% non-response. (Confidence level at 95%, margin of error/degree of accuracy at 5%). What is the reason of considering non-response? (10 marks)

Section D

- Q. 4** You have worked on a project "knowledge and Awareness of Various Methods of Contraception Among Reproductive Age group women in Rajasthan" / "Job Motivation in the Hospitals of Rajasthan". Prepare an outline of the report and discuss the ways dissemination of results of the study. (20 marks)