

**Post Graduate Diploma in Management (Hospital & Health Management)
PGDM – 2023-25 Batch**

1st Year – 2nd Term Examination

Course & Code : Research Methodology (CC 613)	Reg. No. :
Term & Batch : II, 2023-25	Date : 08-04-2024
Duration : 3 Hrs.	Max. Marks : 70

Instructions:

- Budget your time as per the marks given for each question and write your answer accordingly.
 - Don't write anything on the Question Paper except writing your Registration No.
 - Mobile Phones are not allowed even for computations.
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Answers for each section should be attempted together. Any question attempted separately from the respective section will not be marked.

Only attempt the required number of questions. If more than 4 questions are attempted in sections b and c, extra attempted question(s) will not be marked.

Part A: 10 questions*1 mark = 10 marks: Attempt all questions

Please write the option as well as the answer (e.g.- b. RCT)

1. What is the role of an Institutional Review Board (IRB) in research ethics?
 - a) To conduct the research study
 - b) To provide funding for the research study
 - c) To review research protocols to ensure ethical standards are met**
 - d) To obtain informed consent from research participants
2. The best way of ensuring that the participants in the experimental and control group are similar on variables which might be expected to affect the outcome of a study is to use:
 - a) Standardization procedures
 - b) Random selection
 - c) Statistical analysis test
 - d) Random allocation**
3. Research in which the researcher uses qualitative techniques for one phase and quantitative techniques for another phase is known as
 - a) Basic research
 - b) Mixed method research**
 - c) Action research
 - d) Quantitative research

4. In a research study, if the same set of questions is administered to participants at multiple time points, it is an example of:
 - a) Cross-sectional design
 - b) Longitudinal design**
 - c) Retrospective design
 - d) All of the above

5. Which of the following sampling methods is the best way to select a group of people for a study if you are interested in making statements about the larger population?
 - a) Random sampling**
 - b) Convenience sampling
 - c) Quota sampling
 - d) Purposive sampling

6. Differential attrition occurs when the people dropping out from experimental group are different from the people in the comparison group.
 - a) True**
 - b) False

7. Bibliography given in a research report
 - a) Helps those interested in further research and studying the problem from another angle
 - b) Makes the report authentic
 - c) Both a and b**
 - d) None of the above

8. Research hypotheses are
 - a) Formulated prior to a review of the literature
 - b) Statements of predicted relationships between variables
 - c) Stated such that they can be confirmed or refuted by the research study
 - d) Both b and c**

9. Which of the following can be used to plan the duration, timeline and sequence of activities of a research project?
 - a) Bar chart
 - b) Histogram
 - c) Gantt chart**
 - d) Pie chart

10. Name a software used to detect plagiarism in research documents.

Part B: 4 questions*5 marks = 20 marks: Attempt any four questions.

1. What do you understand by research cycle? Explain with a diagram. (5)
2. Explain univariate, bivariate and multivariate analysis with examples. (5)
3. What is meant by piloting a research tool? Give three uses of piloting a research tool. (2+3)
4. Please write about two methods of data collection in qualitative research along with their most appropriate use. (2.5+2.5)

5. In line with the key principles of ethics in research, please enumerate two ethical challenges that may be encountered in a community-based research study and the way they could be mitigated. (2.5+2.5)

Part C: 4 questions*10 marks = 40 marks: Attempt any four questions

6. Dr Li Wenliang was working at the centre of the outbreak in December 2019 when he noticed seven cases of a virus that he thought looked like SARS-- the virus that led to a global epidemic in 2003. The cases were thought to come from the Huanan Seafood market in Wuhan and the patients were in quarantine in his hospital. Dr Li tried to alert fellow medics about the outbreak (COVID) at the end of December. If you were to categorize these findings by type of research study, what type of descriptive study would you put it in? Also elaborate on the other types of descriptive studies. (2+8)
7. Discuss the considerations involved in choosing an appropriate research design for a study. Write five points of difference between quantitative and qualitative research. (5+5)
8. Explain four types of probability sampling. Write one advantage and one disadvantage of each. (2.5*4)
9. What is “internal validity” and “external validity” in scientific research? Enumerate two situations which can lead to loss of internal validity in a research study. List measures you can take to improve internal and external validity of a research study (two each). (4+2+4)
10. How is a systematic review different from a narrative review? Describe and explain a Forest plot and why it is useful in a meta-analysis. (5+5)