

Name of Scholar (in CAPITAL):		Printed
Admission No.:		Pages:02
<b>Core Coursework End Term Examination (Regular/ <del>Back</del>), May-June 2024</b> <b>(For Winter 2023-2024)</b> [Programme: PhD]		
Course Title: Research Methodology		Max Marks: 100
Course Code: C1RD101T		Time: 3 hrs
<b>Instructions:</b>	1. Answer as per the instructions in each section. 2. Assume missing data suitably (if any).	
<b>Section A: All questions are compulsory.</b> <b>(5 x 5 = 25 Marks)</b>		
		Marks
1	You are conducting a literature review on the topic of leadership styles and employee motivation. Identify the major themes and gaps in the existing literature and propose potential research directions to address these gaps.	5
2	Discuss the key considerations that researchers need to keep in mind when designing a questionnaire. How can these considerations ensure the validity and reliability of the data collected?	5
3	You are conducting a study on the dietary habits of college students. Design a sampling plan using stratified random sampling. Justify your choice of strata and explain how this sampling technique can enhance the representativeness of your sample.	5
4	You are conducting a study on the citation patterns of scientific articles. Discuss the importance of citation metrics such as h-index and i10-index in assessing the scholarly impact of researchers. What are the potential limitations of relying solely on citation metrics for evaluation?	5
5	Explain the difference between qualitative and quantitative research methods. Provide examples of situations where each method would be appropriate and discuss their respective strengths and limitations.	5
<b>Section B: Answer any five questions.</b> <b>(15 x 5 = 75 Marks)</b>		
6	Discuss the practical significance of research in applied settings. Explain how research findings can have practical implications and impact real-world contexts, such as policy-making, program development, or clinical practice. Provide examples of how research can inform decision-making and lead to positive changes or improvements in practical applications. Also, discuss the challenges researchers may encounter in translating research findings into practical significance.	15
7	You are conducting a study to measure the job satisfaction (or in relevant research area of your interest, state the area in the very beginning of your answer). Discuss the steps you would take to establish the construct validity of your measurement instrument. Include a discussion on content, criterion and construct validity. Provide examples of how you would assess each type of validity.	15

8	Discuss the difference between qualitative and quantitative research approaches. Explain the key characteristics, goals, and methodologies associated with each approach. Provide examples of situations where each approach would be suitable, and discuss the potential strengths and limitations of each approach.	15
9	Consider a hypothetical research problem focused on the effectiveness of a new teaching method in improving student learning outcomes. Explain why it is important to establish the significance of this research problem by discussing its alignment with current educational needs and challenges. Describe the specific characteristics of this research problem that make it significant, such as its potential to address a gap in existing knowledge, contribute to educational theory, and inform evidence-based teaching practices.	15
10	Discuss various uncalculated errors that researcher might face while measuring a particular objective/subjective construct. Identify which among them may constitute systematic and variable error. Also suggest measures that research may take to remove them in order to ensure accuracy of measurement.	15
11	You are conducting a mixed methods research study that involves combining quantitative survey data with qualitative interviews. Discuss the attributes and their related tests with the help of which you may ensure the reliability of data integration and interpretation. Propose innovative strategies, that you would employ to enhance the reliability and validity of the findings derived from the mixed methods approach.	15