VCD/2	23 10 28 SYBSCDS SEM III RESEARCH METHODS AND ETHICS 2 1/2 HRS 75 MAR	KS
N.B.	 (1)All Questions are compulsory (2)Make suitable assumptions wherever necessary and state the assumption mod (3)Answers to the same questions must be written together (4)Numbers to the right indicate marks (5)Draw neat labelled diagrams wherever necessary 	le
Q.1	Attempt Any three.a. What is research? List and explain various types of research.b. Describe the process of research design in the context of exploratory research.	15
	 c. Define research design. List and explain the need of research design. d. Define research problem. List and explain the techniques of defining the research problem. e. Explain the concept of research approaches. 	
	f. List the different steps involved in research process and explain them.	
Q.2	Attempt Any three. a. Describe the factors involved in data collection.	15
	 b. List and explain various types of measurement scales with suitable examples. c. Write the difference between test of validity and reliability. d. What is probability sampling? Describe it with suitable sample. e. List and explain the primary data collection methods. f. List the steps involved in sampling design development. 	
Q.3	Attempt Any three.	15
Q.5	a. Define the terms i. Inferential ii. Univariate iii. Bivariate iv.correlation v.Descriptive	
	b. List and explain different ways to determine sample tests.c. Define sampling. Explain its need.	
	d. Define hypotheses. List its characteristics.	
	e. Draw the flow diagram of hypothesis testing and explain. f. List and explain the various processing operations.	
Q.4	Altempt Any three.	15.
	 a. Describe the layout of research report. b. Where research paper can be published? Explain. c. What are the steps involved in technical report? Explain. d. Define plagiarism. List and explain the plagiarism detection tools. e. List and explain the precautions to be taken by researcher while 	
	interpreting findings. f. Explain the EndNote reference management tools.	
Q.5	Attempt Any three.	15
	 a. List and explain the ethical responsibilities of researcher. b. What are research ethics? Explain in detail. c. Define E-research. Explain by giving suitable examples. d. What are the ethical considerations in e-research? Explain. e. What is the need for ethical awareness. f. Write a short note on prefessional ethics. 	