

## CBCS SCHEME

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20MCA15

**First Semester MCA Degree Examination, Jan./Feb. 2021**  
**Research Methodology and IPR**

Time: 3 hrs.

Max. Marks: 100

*Note: Answer any FIVE full questions, choosing ONE full question from each module.*

Module-1

- 1 a. What is Research? Discuss the objectives and motivations in research. (10 Marks)  
 b. Explain how significance of research is different for different people. (10 Marks)

OR

- 2 a. Differentiate between research method and research methodology. (10 Marks)  
 b. What are the problems that are encountered by researchers in India? (10 Marks)

Module-2

- 3 a. When can a problem become a research problem? (10 Marks)  
 b. Why is it needed to define research problem? (04 Marks)  
 c. What are the techniques involved in defining a research problem. (06 Marks)

OR

- 4 a. What is literature review? How can it help in research? (10 Marks)  
 b. How do you think researcher should collect literature for review? (10 Marks)

Module-3

- 5 a. What is research design? What are the components of research design? (10 Marks)  
 b. List and explain few important experimental designs. (10 Marks)

OR

- 6 a. What are the characteristics of a good sample design? (04 Marks)  
 b. Under what circumstances would you recommend (i) a probability sample (ii) a non-probability sample (iii) a stratified sample and (iv) a cluster sample. (16 Marks)

Module-4

- 7 a. Discuss how can a researcher collect data through (i) Interview (ii) Questionnaire. (10 Marks)  
 b. What are the techniques of interpretation? (04 Marks)  
 c. Explain the different steps involved in report writing. (06 Marks)

OR

- 8 a. What are the types of report that you know of? (10 Marks)  
 b. What are the precautions that should be taken while writing research report? (10 Marks)

Module-5

- 9 a. What is intellectual property? What are the different types of it? (10 Marks)  
 b. Why do you think IPR is important in recent times? (10 Marks)

OR

- 10 Write short notes on [Any Two]:

- a. Indian Patent Act 1970  
 b. Copyright Act 1957  
 c. Industrial Design Act 2000

(20 Marks)

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