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Question Paper Code: BCS703



INSTITUTE OF AERONAUTICAL ENGINEERING
(Autonomous)

M.Tech II Semester End Examinations (Supplementary) - January, 2018

Regulation: IARE-R16

RESEARCH METHODOLOGY
(Common to CSE|(CAD/CAM)|PEED|ES|SE)

Time: 3 Hours

Max Marks: 70

Answer ONE Question from each Unit

All Questions Carry Equal Marks

All parts of the question must be answered in one place only

UNIT – I

1. (a) Explain with examples the various types of research and research approaches. [7M]
(b) Taking a case study list, explain the various steps in sample design. [7M]
2. (a) List and explain the items required in a research plan. [7M]
(b) Define experimental design. State the basic principles of experimental design. [7M]

UNIT – II

3. (a) What is the meaning of measurement in research? What difference does it make whether we measure in terms of nominal, ordinal, interval or ratio scale? Explain giving examples [7M]
(b) Discuss the merits and demerits of [7M]
 - i. Rating Vs. Ranking scales
 - ii. Summated Vs. Cummulative scales
4. (a) Describe the different methods of scale construction and scaling techniques. [7M]
(b) Write short notes on [7M]
 - i. Scalogram analysis
 - ii. Arbitrary scale

UNIT – III

5. (a) Explain the merits and demerits of data collection through questionnaire and interviews. [7M]
(b) List and explain any seven differences between questionnaires and schedules. [7M]
6. (a) Describe any seven methods of data collection with examples. [7M]
(b) What are the characteristics of secondary data? How to establish an appropriate method for data collection. [7M]

UNIT – IV

7. (a) Mention the different types of reports, particularly pointing out the difference between the technical report and a popular report. [7M]
(b) What are the techniques of interpretation. Explain with an example. [7M]
8. (a) List and explain the mechanism of writing a research report. [7M]
(b) What are the precautions for writing research reports . [7M]

UNIT – V

9. (a) Distinguish international trademark law and copyright law. [7M]
(b) Explain new developments in the copyright protect for following [7M]
 i. Computer games
 ii. Video games
 iii. Piracy of software.
10. (a) Explain why agencies responsible for intellectual property registration, with any two examples. [7M]
(b) Describe the principles governing while a purchased book is later sold to. [7M]

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