

M.E. Fourth Semester (Production Tech. & Mgt.) (P.T.) (CBS)
13542 : Research Methodology : 4 SPTM 2

P. Pages : 1

Time : Three Hours



AU - 3250

Max. Marks : 80

- Notes : 1. Answer **three** question from Section A and **three** question from Section B.
2. Illustrate your answer necessary with the help of neat sketches.

SECTION - A

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| 1. | a) | What are the steps involved in research process ? Explain. | 13 |
| 2. | | Explain various sources of literature review ? Which systems of referencing are generally followed in the literature ? Explain & compare. | 14 |
| 3. | | What is sampling ? What are the different methods of sampling ? | 13 |
| 4. | | Explain in detail, 'Qualitative and Quantitative' data analysis ? | 13 |
| 5. | | What are the various methods of formulation of research tasks ? Explain any one with suitable example. | 13 |

SECTION - B

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| 6. | a) | What are the steps normally followed for carrying out experimentation ? How does the field experimentation differ from that of the laboratory experimentation ? | 8 |
| | b) | What are the dependent, independent & extraneous variables ? Explain with suitable example. | 6 |
| 7. | a) | What are the methods of test data purification ? Explain method of extrapolation & interpolation ? | 8 |
| | b) | What do you mean by correlation coefficient ? Explain. | 5 |
| 8. | | Discuss the method of fuzzy logic based model formulation, using suitable example. | 13 |
| 9. | | What are tools of experimental data purification ? | 13 |
| 10. | | What are the major sections of a technical paper ? Explain how you will prepare a technical paper ? | 13 |
