| Total No. of Qu | uestions : | 7] |
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[5671]-231 M.E. (Electronics) (E & TC) RESEARCH METHODOLOGY (2017 Pattern)

| Time | 2:3 | Hours] [Max. Marks :50 |
|-------------|-----------|---|
| | | ons to the candidates: |
| | <i>1)</i> | Answer any five questions. |
| | 2) | Support your answer with neat diagram if necessary. |
| | <i>3)</i> | Figures to the right indicate full marks. |
| | <i>4)</i> | Assume suitable data, if necessary. |
| | | |
| Q 1) | a) | Explain briefly the different steps involved in a research Process. [5] |
| | b) | How to develop theoretical and conceptual framework from reviewed literature. [5] |
| | | merature. |
| <i>Q2</i>) | a) | Define hypotheses and state the functions of a hypotheses in research.[5] |
| | b) | How to formulate and test the hypotheses? [5] |
| Q3) | a) | Explain regression analysis with suitable example? [5] |
| | b) | Explain important characteristics of multivariate techniques, list multivariate techniques? [5] |
| | | |
| Q4) | a) | What do you mean by principle component analysis explain in details.[5] |
| | b) | Describe in brief Layout of Research report covering all relevant points.[5] |
| Q5) | a) | Write a short note on correlation. [5] |
| | b) | Explain in brief 'Interpretation' in the contest of research methodology. [5] |

| Q6) | a) | Explain different types of descriptive research design. | [5] | |
|-------------|-----|--|-----|--|
| | b) | Justify the need of statistics for advance data analysis. | | |
| | | | [5] | |
| Q 7) | Wri | ite Short Note on | | |
| 21) | a) | Objectives of Research | [5] | |
| | | Data collection using digital computer system. | | |
| | b) | Data concerton using digital computer system. | [5] | |
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