# **Model Question Paper**

COURSE: M.TECH. SEMESTER: 1 . Duration: 3:00 hrs

**BRANCH: ELECTRICAL ENGINEERING** SUBJECT: Research Methodology and IPR

Max marks: 100

### Note: Attempt all questions.

#### 5x4 = 201. Attempt any four parts of the following.

- A. Explain the approaches for investigation of solution in research problem.
- B. Why literature review is necessary for research explain in brief?
- C. Differentiate between research methodology and research methods
- D. List the differences between collection of data through questionnaires and schedules
- E. List and explain the various steps involved in conducting a literature review.
- F. What is research problem? What are the routs must be observed while defining a research

### 2. Attempt any two parts of the following.

- A. Explain the various steps involved in the sample design.
- B. Explain the various characteristics of a good sample design.
- C. Explain the different steps involved in writing research report.

#### 3. Attempt any two parts of the following.

- a) List the different methods of collecting dala. Explain the observation method of collecting data with its ments and demerits.
- b) Enumerate the salient features of the design Act 2000.
- c) List all the common rules which all the contracting states must follow for patents

#### Attempt any two parts of the following. 4.

- a) List all the issues and features covered under TRIPS agreement. Explain the competing rationales for protection of IPRs.
- b) Explain the three basic principles of experimental design.
- c)

## 5. Attempt any two parts of the following.

- A). Explain the meaning of the following in context of research design:
- i) Extraneous variable ii) Confounded relationship ii) Research hypothesis
- iv) Experimental and control groups.

## 10x2=20

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10x2=20

ROLL NO.

- (B) Explain the following:
- i) Bring clarity and focus to your research problem.
- ii) Improve your research methodology
- C) write the concept of plagrism ? and give brief idea about for importance for scholars