Model Question Paper

COURSE: M.TECH.   **BRANCH**: COMPUTER SCIENCE ENGINEERING

SEMESTER: 1 .   **SUBJECT**: RESEARCH METHODOLOGY & IPR

Duration: 3:00 hrs   **Max marks: 100**

Note: Attempt all questions.

1. **Attempt any four parts of the following.**   5x4 = 20

   A. Give various definitions of research explaining its meaning and scope.
   B. Describe the steps involved in research process.
   C. Write short note on hypothesis.
   D. Enlist various characteristics of research.
   E. Discuss in detail various types of research.
   F. Write the difference between descriptive and analytical research.

2. **Attempt any two parts of the following.**   10x2=20

   A. Write a short note on
        a) Applied and fundamental research
        b) Quantitative and qualitative research.
   B. How do you define a research problem? Give an example to illustrate your answer.
   C. Discuss various issues involved in selecting a research problem. Also elaborate important features of a good research design.

3. **Attempt any two parts of the following.**   10x2=20

   A. Explain new developments in Intellectual Property Rights.

   B. Explain the meaning of sampling and non-sampling errors. What are the various sources of these errors? Elaborate in detail.

   C. Discuss in detail different types of research design.

4. **Attempt any two parts of the following.**   10x2=20

   A. Describe various types of random sampling citing their strengths and weakness. Also explain how to select a sample using each method.

   B. What are the data collection tools? Explain data collection types and techniques in detail.

   C. Write a short note on

        a) Layout of designing research paper
        b) Ethical issues.

5. Attempt any two parts of the following.   **10x2=20**

    A. Define intellectual property in research. Explain different types of intellectual property.

    B. Explain the expectation and limitation on exclusive rights of the patent.

    C. Discuss in detail techniques of Interpretation and Precautions in Interpretation.