

Fifth Semester B.E. Degree Examination, Dec.2023/Jan.2024 Research Methodology & Intellectual Property Rights

Time: 3 hrs.

Max. Marks: 100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. What is Engineering Research? What are the primary objectives of conducting research in engineering? (10 Marks)
- b. What are the various types of engineering research? Explain. (10 Marks)

OR

- 2 a. Explain Fabrication, Falsification and Plagiarism related to Engineering research. (10 Marks)
- b. What ethical considerations and responsibilities should be taken into account when determining authorship in Engineering research? (10 Marks)

Module-2

- 3 a. How do researchers distinguish between new and existing knowledge during a literature review? (10 Marks)
- b. How can researchers effectively use search engines to find relevant literature in their fields? (10 Marks)

OR

- 4 a. What challenges do researchers commonly face when reading mathematical content or algorithm? (10 Marks)
- b. What is impact of Title and Keywords on Citations? Explain Citation based knowledge flow. (10 Marks)

Module-3

- 5 a. What is definition of Intellectual Property (IP)? In what way does Intellectual Property contribute to economic growth and cultural development in a society? (10 Marks)
- b. Discuss the history of Intellectual property in India. (10 Marks)

OR

- 6 a. Explain the step by step process of obtaining a patent. From the initial idea to the grant of the patent. (10 Marks)
- b. What are the commonly used terms in the field of patenting and how do they contribute to effective communication in this domain. (10 Marks)

Module-4

- 7 a. Explain the criteria that an original work must meet to qualify for copyright protection. (10 Marks)
- b. Explain the process of copyright registration? What are the benefits for the copy right holders? (10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages.
2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 8 a. Explain the process of Trademark registration. (10 Marks)
b. Explain the classification system for trademarks and its role in categorizing different types of marks. (10 Marks)

Module-5

- 9 a. Explain the process of Industrial design registration. (10 Marks)
b. Explain the famous case law between Apple Inc Vs Samsung Electronics Co. related with Industrial Design rights. (10 Marks)

OR

- 10 a. Which specific acts, laws and rules govern geographical indications in India? Give some examples of well known geographical indications registered in India. (10 Marks)
b. How would you describe the overall ecosystem and significance of geographical indications in India? (10 Marks)

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