

CBCS SCHEME

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Fifth Semester B.E./B.Tech. Degree Examination, Dec.2025/Jan.2026
Research Methodology & Intellectual Property Rights

Max. Marks: 100

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

Module-1

- 1 a. Explain the objectives of Engineering Research. (10 Marks)
- b. List and explain the motivational factors in Engineering Research. (10 Marks)

OR

- 2 a. Discuss different types of Engineering research. (10 Marks)
- b. Explain various steps in solving a research problem. (10 Marks)

Module-2

- 3 a. What is the purpose of conducting literature review in research process? Explain. (10 Marks)
- b. Discuss various challenges researchers might face during technical reading and suggest strategies to overcome them. (10 Marks)

OR

- 4 a. Explain difference between new knowledge and existing knowledge in the context of research. (10 Marks)
- b. Discuss the key features of web of science. (10 Marks)

Module-3

- 5 a. Explain the role of IPR in the economic and cultural development of society. (10 Marks)
- b. Provide a brief overview of history of IPR in India. (10 Marks)

OR

- 6 a. Explain the steps involved in the process of patenting starting from prior art search to grant of a patent. (10 Marks)
- b. Discuss the role of attorney / agent in patent filing. (10 Marks)

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Module-4

- 7 a. What criteria determine ownership of copyright for a creative work? Explain. (10 Marks)
b. Is Copyright infringement considered as a criminal offense and what are the implications? Explain. (10 Marks)

OR

- 8 a. Discuss the steps involved in registering trademark. (10 Marks)
b. Summarize the key details and outcome of coca-cola company v/s Bisleri International Pvt.Ltd. company case. (10 Marks)

Module-5

- 9 a. What are the eligibility criteria for a design to qualify for industrial design protection? Explain. (10 Marks)
b. Explain the procedure for the registration of Industrial design. (10 Marks)

OR

- 10 a. Analyze the case study of Curcuma (Turmeric) Patent and its implications. (10 Marks)
b. Examine the case study of the Basmati patent, focusing on the controversies and resolutions. (10 Marks)
