



# STJOSEPHENGINEERINGCOLLEGE, MANGALURU

An Autonomous Institution

## Fifth Semester B.E. Degree (Autonomous) Examinations

USN: 

|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|
|  |  |  |  |  |  |  |  |
|--|--|--|--|--|--|--|--|

22RMI57

Duration: 3 Hrs

Maximum Marks: 100

### Research Methodology and Intellectual Property Rights

Note: 1. Part-A is mandatory.

2. Answer any five full questions from Part-B choosing atleast one from each module.

3. Missing data may be suitably assumed.

#### PART-A

| Q.No. | Question  |    |  | BL | CO | PO   | Marks |
|-------|---|----|--|----|----|------|-------|
| 1     | A research intends to explore the result of possible factors for the organization of effective mid-day meal interventions. Which research method will be most appropriate for this study? |    |  | L4 | 1  | PO2  | 1     |
|       | a) Descriptive survey method  | b) | Historical method  |    |    |      |       |
|       | c) Ex-postfacto method  | d) | Experimental method                                      |    |    |      |       |
| 2     | A researcher is interested in studying the prospects of a particular political party in an urban area. So, what tool should he prefer for the study?                                      |    |  | L3 | 1  | PO2  | 1     |
|       | a) Rating Scale   | b) | Interview  |    |    |      |       |
|       | c) Questionnaire  | d) | Schedule   |    |    |      |       |
| 3     | A research proposal should start with -----   |    |  | L2 | 2  | PO10 | 1     |
|       | a) Sampling technique   | b) | An overview of the main area under study.                |    |    |      |       |
|       | c) The proposed structure of the report   | d) | A time frame of the proposed research                    |    |    |      |       |
| 4     | What is the significance of the "Literature Review" section in a thesis?  |    |  | L2 | 2  | PO8  | 1     |
|       | a) To introduce the research topic  | b) | To summarize the entire thesis                           |    |    |      |       |
|       | c) To provide background information and review existing research on the topic  | d) | To list the references used in the thesis                |    |    |      |       |
| 5     | The use of information and ideas protected by IPR are of  |    |  | L2 | 4  | PO6  | 1     |
|       | a) Cultural value   | b) | Social value   |    |    |      |       |
|       | c) Commercial value   | d) | Moral value  |    |    |      |       |
| 6     | The term "person" as defined in the Patents Act includes Government.  |    |  | L2 | 3  | PO6  | 1     |
|       | a) Yes  | b) | No   |    |    |      |       |
|       | c) Only Natural or Body Corporate.  | d) | "person" means only individual or a group of individuals |    |    |      |       |

| Q.No. | Question  |  |              |  | BL | CO | PO   | Marks |  |  |  |  |
|-------|---|--|--------------|--|----|----|------|-------|--|--|--|--|
| 7     | <p>Given below are two statements: One is labelled as Assertion (A) and the other is labelled as Reason (R).</p> <p><u>Assertion (A):</u> Trademark registration gives exclusive proprietary rights to the trademark owner.</p> <p><u>Reason®:</u> A trademark is a recognizable sign, design or expression, which identifies the product or services of a particular source from those of others, and are used to claim exclusive proprietary rights of product or services.</p> |  |              |  | L4 | 5  | PO6  | 2     |  |  |  |  |
|       | <p>a) Both(A)and(R)are true and (R) is the correct Explanation of(A)</p>  |  |              |  |    |    |      |       |  |  |  |  |
|       | <p>c) (A)is true but(R) is false.</p>   |  |              |  |    |    |      |       |  |  |  |  |
| 8     | Under which type of agreement royalty is paid on the basis of sale?   |  |              |  | L2 | 5  | PO6  | 1     |  |  |  |  |
|       | a) Mining   |  | b) Patent    |  |    |    |      |       |  |  |  |  |
|       | c) Copyright  |  | d) Licensing |  |    |    |      |       |  |  |  |  |
| 9     | Mention the specific criteria for the protection under the Semi-Conductor Integrated Circuits Layout-Design (SICLD) Act, 2000   |  |              |  | L2 | 6  | PO6  | 2     |  |  |  |  |
| 10    | The Protection of Plant Varieties and Farmers' Rights Act was enacted in  |  |              |  | L1 | 6  | PO6  | 1     |  |  |  |  |
|       | a) 2021   |  | b) 1991      |  |    |    |      |       |  |  |  |  |
|       | c) 2001   |  | d) 1971      |  |    |    |      |       |  |  |  |  |
| 11    | What do you mean by Research Methods and Research Methodology?  |  |              |  | L1 | 1  | PO2  | 2     |  |  |  |  |
| 12    | What is the role of proper referencing in a research paper.   |  |              |  | L2 | 2  | PO10 | 2     |  |  |  |  |
| 13    | Name the different types of Intellectual Property?  |  |              |  | L1 | 3  | PO6  | 2     |  |  |  |  |
| 14    | List out the 4 examples of Indian Geographical Indications.   |  |              |  | L1 | 6  | PO6  | 2     |  |  |  |  |

### PART-B

#### Module-1

| Q.No. | Question |  |  |  | BL | CO | PO  | Marks |
|-------|----------|--|--|--|----|----|-----|-------|
| 1     | a)       | Briefly describe the different steps involved in a research process. |  |  | L2 | 1  | PO1 | 8     |
|       | b)       | Describe briefly the techniques of defining a research problem.      |  |  | L2 | 1  | PO1 | 8     |

#### OR

|   |    |   |  |  |    |   |     |   |
|---|----|---|--|--|----|---|-----|---|
| 2 | a) | Explain the importance and principles of Research Ethics. |  |  | L2 | 1 | PO1 | 8 |
|   | b) | Write a note on Author Metrics and Journal Metrics.       |  |  | L2 | 2 | PO8 | 8 |

#### Module-2

|   |    |   |  |  |    |   |     |   |
|---|----|---|--|--|----|---|-----|---|
| 3 | a) | State and explain atleast 8 key reasons why writing research papers is important. |  |  | L2 | 2 | P10 | 8 |
|   | b) | Explain Submission and Post-submission step in research article writing.          |  |  | L3 | 2 | PO8 | 8 |

#### OR

|   |    |   |    |   |     |   |
|---|----|---|----|---|-----|---|
| 4 | a) | What do you mean by Thesis Writing? Explain briefly the typical components of a Thesis. | L2 | 2 | P10 | 8 |
|   | b) | Discuss the preliminary requirements for research proposal writing in Engineering .     | L3 | 2 | P10 | 8 |

**Module-3**

|   |    |   |    |   |     |   |
|---|----|---|----|---|-----|---|
| 5 | a) | What is meant by Intellectual Property? Why does intellectual property need to be promoted and protected? | L4 | 3 | PO6 | 8 |
|   | b) | Discuss in brief any two leading International Instruments concerning Intellectual Property Rights.       | L2 | 4 | PO6 | 8 |

**OR**

|   |    |   |    |   |     |   |
|---|----|---|----|---|-----|---|
| 6 | a) | An invention may satisfy the condition of novelty, inventiveness and usefulness but it may not qualify for a patent. Discuss. Who checks the novelty features of the invention? | L4 | 5 | PO6 | 8 |
|   | b) | Discuss various types of Applications for Patents.  | L2 | 5 | PO6 | 8 |

**Module-4**

|   |    |  |    |   |     |   |
|---|----|--|----|---|-----|---|
| 7 | a) | Briefly Explain: (i) Remedies available to a copyright owner when his copyright is infringed and (ii) Terms of copyright | L2 | 5 | PO6 | 8 |
|   | b) | Enumerate the functions of the copyright board.  | L2 | 5 | PO6 | 8 |

**OR**

|   |    |   |    |   |     |   |
|---|----|---|----|---|-----|---|
| 8 | a) | Distinguish between:(i)Trademark and property mark(ii)Artistic work and Sound recording                 | L2 | 5 | PO6 | 8 |
|   | b) | List the exclusive rights conferred by the registration of the Trade Mark on the registered proprietor. | L2 | 5 | PO6 | 8 |

**Module-5**

|   |    |  |    |   |     |   |
|---|----|--|----|---|-----|---|
| 9 | a) | What is an Industrial Design? Discuss the need for protection of Industrial Designs as IP in India.  | L3 | 6 | PO6 | 8 |
|   | b) | What is a geographical indication? List the salient features of the Geographical Indications of Goods (Registration &Protection)Act, 1999. | L2 | 6 | PO6 | 8 |

**OR**

|    |    |  |    |   |     |   |
|----|----|--|----|---|-----|---|
| 10 | a) | Explain briefly the need for protection of India's Traditional Knowledge under Intellectual Property regime. | L3 | 6 | PO6 | 8 |
|    | b) | Discuss the salient features of the Bio-diversity Act 2002.  | L2 | 6 | PO6 | 8 |

