

RESEARCH METHODOLOGY & IPR
(ECEN 5103)

Time Allotted : 3 hrs

Full Marks : 70

Figures out of the right margin indicate full marks.

Candidates are required to answer Group A and any 5 (five) from Group B to E, taking at least one from each group.

Candidates are required to give answer in their own words as far as practicable.

Group - A
(Multiple Choice Type Questions)

1. Choose the correct alternative for the following: **10 × 1 = 10**
- (i) Questionnaire is a :
(a) Research method (b) Measurement technique
(c) Tool for data collection (d) Data analysis technique.
- (ii) Which of the following is not covered under the Intellectual Property Rights ?
(a) Copyrights (b) Patents
(c) Trade Marks (d) Thesaurus.
- (iii) Research undertaken for knowledge sake is
(a) Pure Research (b) Action Research
(c) Pilot study (d) Survey.
- (iv) Research conducted to find solution for an immediate problem is
(a) Fundamental Research (b) Analytical Research
(c) Survey (d) Action Research.
- (v) _____ is the first step of Research process
(a) Formulation of a problem (b) Collection of Data
(c) Editing and Coding (d) Selection of a problem.
- (vi) The first step in formulating a problem
(a) Statement of the problem (b) Gathering of Data
(c) Measurement (d) Survey .

- (vii) Survey is a _____ Study.
(a) Descriptive (b) Fact finding
(c) Analytical (d) Systematic.
- (viii) _____ is a form of intellectual property law that protects original works of authorship, including literary, dramatic, musical, and artistic works, such as poetry, novels, movies, songs, computer software, and architecture.
(a) Patent (b) Copyright
(c) Masking (d) Trademark.
- (ix) A government authority conferring a right for a set period, the sole right to exclude others from making, using, or selling an invention is a.
(a) Copyright (b) Trademark
(c) Patent (d) Title.
- (x) A comprehensive full Report of the research process is called
(a) Thesis (b) Summary Report
(c) Abstract (d) Article

Group - B

2. (a) Discuss the characteristics of research.
(b) Briefly describe the steps involved in the research process. **6 + 6 = 12**
3. (a) What are the objectives of a research problem?
(b) Identify and elaborate the various components of a research proposal. **6 + 6 = 12**

Group - C

4. (a) Define the term 'Review of literature'. Enumerate the objectives of review of literature.
(b) Discuss the significance of literature review. Mention how literature review should be reported. **6 + 6 = 12**
5. (a) Discuss some ethical principles of research.
(b) Mention some means of ethical misconduct. List the precautions that can be taken to avoid plagiarism in research. **6 + (2 + 4) = 12**

Group - D

6. (a) Mention the essential parts of a research proposal.
(b) Enumerate the criteria for evaluating the Research proposal. **6 + 6 = 12**
7. (a) What is the format of a research paper?
(b) State the advantages of a research paper. **6 + 6 = 12**

Group - E

8. (a) What is a patent? Discuss the conditions required to be satisfied for an invention to be patentable.
(b) Mention few grounds for revocation of a patent. **(4 + 4) + 4 = 12**
9. (a) What is a copyright law? Mention the rights granted by copyright.
(b) Discuss three examples of copyright ownership. **6 + 6 = 12**

Department & Section	Submission Link
ECE	https://classroom.google.com/c/MjlyMjc4MjMxMzM4/a/MjkxNDMyMzk4NDYz/details

