

**RESEARCH METHODOLOGY AND IPR
(AEIE 5103)**

Time Allotted : 2½ hrs

Full Marks : 60

Figures out of the right margin indicate full marks.

*Candidates are required to answer Group A and
any 4 (four) from Group B to E, taking one from each group.*

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

Group – A

1. Answer any twelve:

12 × 1 = 12

Choose the correct alternative for the following

- (i) Research through experiment and observation is called
 - (a) Clinical research
 - (b) Experimental research
 - (c) Laboratory research
 - (d) Empirical research
- (ii) An essential Criterion of Scientific study is
 - (a) belief
 - (b) value
 - (c) objectivity
 - (d) subjectivity.
- (iii) The patent owner shall own patent right for a maximum period of
 - (a) 10 years and renewed
 - (b) 15 years from the date of filing of application
 - (c) 20 years plus life of the patentee
 - (d) 20 years from the date of filing of application.
- (iv) Which one of the following cannot be protected by Intellectual Property Rights?
 - (a) A composition of a song
 - (b) A programme codes
 - (c) A book
 - (d) A piece of land.
- (v) All research process starts with
 - (a) hypothesis
 - (b) observation
 - (c) experiments to host hypothesis
 - (d) all of these.
- (vi) The Trade secrets law protects
 - (a) valuable information
 - (b) commercially valuable information
 - (c) noncommercial valuable information for
 - (d) none of the above.
- (vii) The first page of the research report is
 - (a) Appendix
 - (b) Bibliography
 - (c) Index
 - (d) Title Page.

- (viii) A copyright owner has the Rights to
 (a) reproduce his work (b) Issue copies
 (c) both (a) and (b) (d) none of the above.
- (ix) A Hypothesis from which no generalization can be made is
 (a) Null Hypothesis (b) Casual Hypothesis
 (c) Barren Hypothesis (d) Analytical Hypothesis.
- (x) In the case of a musical work, the copyright owner is the
 (a) composer (b) producer (c) director (d) author.

Fill in the blanks with the correct word

- (xi) Reference section of a research report includes bibliography, appendix, and ____.
- (xii) Conceptual research is generally used by philosophers and thinkers to develop ____.
- (xiii) Copyright lasts for a certain time period after which the work is said to enter the ____.
- (xiv) There are no ____ associated with IP.
- (xv) Objective of Diagnostic Research Study is to determine the frequency of occurrence of a ____ phenomenon.

Group - B

2. (a) Distinguish between Research methods and Research methodology. [[C01](Remember/LOCQ)]
 (b) What is a hypothesis? [[C01](Remember/LOCQ)]
 (c) What are null hypothesis and alternative hypothesis? [[C02](Remember/LOCQ)]
4 + 3 + 5 = 12
3. (a) What is a research problem? What is the necessity of defining a research problem? [[C01](Understand/LOCQ)]
 (b) What are the different techniques involved in defining a research problem? [[C01](Understand/LOCQ)]
 (c) Explain the meaning and significance of a Research design. [[C01](Understand/LOCQ)]
(2 + 2) + 3 + 5 = 12

Group - C

4. (a) Define the term 'Review of literature'. Enumerate the objectives of review of literature. [[C03](Understand/LOCQ)]
 (b) Explain different way of ethical misconduct. List the precautions that can be taken to avoid plagiarism in research. [[C03](Understand/LOCQ)]
6 + 6 = 12

5. (a) Describe the layout of a research report. [[CO3](Understand/LOCQ)]
 (b) What are the different types of report? Explain in brief. [[CO3](Understand/LOCQ)]
6 + 6 = 12

Group - D

6. (a) Distinguish between Trade mark and property mark. [[CO4](Understand/LOCQ)]
 (b) What is infringement? What remedies are available to the owner of the mark in the case of infringement of his trademark? [[CO4](Understand/LOCQ)]
4 + (3 + 5) = 12
7. (a) Explain the intellectual property right (IPR) in brief. What do you mean by copy right? [[CO4](Understand/LOCQ)]
 (b) Name the industrial properties on which IPR can be made. [[CO4](Remember/LOCQ)]
7 + 5 = 12

Group - E

8. (a) Write a short note on Foreign filing of patent application. [[CO4](Understand/LOCQ)]
 (b) What is the role of intellectual property in boosting competitiveness? [[CO4](Understand/LOCQ)]
 (c) “Over the past two decades around, intellectual property rights have grown to a stature from where it plays a major role in the development of global economy.” In the light of this statement, write down a brief note on the recent development taken place in the regulatory regime of Intellectual Property in India. [[CO4](Understand/LOCQ)]
4 + 4 + 4 = 12
9. (a) What are the exclusive rights of a performer under the Copyright Act? [[CO4](Understand/LOCQ)]
 (b) What is copyright infringement and what are its consequences? [[CO4](Understand/LOCQ)]
 (c) Discuss the conditions that must be met in order for an invention to be patented. [[CO4](Understand/LOCQ)]
4 + 4 + 4 = 12

Cognition Level	LOCQ	IOCQ	HOCQ
Percentage distribution	100	0	0

