Model Question Paper-1 with effect from 2022-23 (CBCS Scheme)

USN

Fifth Semester B.E. Degree Examination
Research Methodology & Intellectual Property Rights (IPR)

TIME: 03 Hours   **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

		Module -1	***Bloom's Taxonomy Level**	**Marks**
Q.01	a	Define the term research and explain the research flow cycle with a relevant diagram.	L1	7
	b	What are the three broad categories of developing and accessing knowledge in research? Explain with a diagram.	L1	7
	c	What are the key ethical issues related to authorship? Explain each one.	L1	6
		OR		
Q.02	a	Discuss the different types of engineering research. Clearly point out the differences between all of them with examples.	L2	10
	b	List the different types of research misconduct and provide a brief explanation for each one.	L3	10
		Module-2		
Q. 03	a	What are the primary goals of conducting a literature review in academic research?	L1	7
	b	How does the new and existing knowledge can contribute to the research process? Explain with relevant points.	L2	8
	c	What are datasheets and write their contents?	L2	5
		OR		
Q.04	a	Explain the various steps involved in the critical and creative reading process.	L1	8
	b	Define the term Citation. Describe the three functions of Citation.	L1	5
	c	Explain how knowledge flows through a citation network using a flow diagram.	L1	7
		Module-3		
Q. 05	a	What types of inventions are eligible for patenting, and which matters are considered non-patentable?	L2	10
	b	Explain the major steps involved in the process of filling patent applications using a flow chart.	L1	10
		OR		
Q. 06	a	Explain the different types of patent applications.	L1	8
	b	What strategies are involved in the commercialization of a patent?	L2	7
	c	What are utility models, and how do they differ from patents?	L1	5

		Module-4		
Q. 07	a	Define the term Copyright and write its classes.	L1	5
	b	What are the two exclusive rights owned by the copyright owner? Explain briefly.	L2	5
	c	What are the roles and functions of the copyright board and the copyright society in administering copyright laws and regulations?	L2	10
		OR		
Q. 08	a	What are the key eligibility criteria that a mark must meet to qualify for trademark protection? List advantages that a proprietor gains through trademark registration	L2	10
	b	Using a flowchart, explain the steps involved in the process of Trademarks Registration.	L3	10
		Module-5		
Q. 09	a	Briefly explain the overview of Industrial Design (ID). Summarize the Non-Protectable Industrial Designs in India.	L1	10
	b	Discuss the Design registration procedure by using a flowchart.	L2	10
		OR		
Q. 10	a	Define Geographical Indications (GI) with an example. What are the rights granted to GI holders?	L1	10
	b	Summarize the IPR-related activities the Department for Promotion of Industry and Internal Trade (DPIIT) undertakes.	L3	10

*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of question.

Model Question Paper-2 with effect from 2022-23 (CBCS Scheme)

USN

Fifth Semester B.E. Degree Examination
Research Methodology & Intellectual Property Rights (IPR)

TIME: 03 Hours   **Max. Marks: 100**

Note: 01. Answer any **FIVE** full questions, choosing at least **ONE** question from each **MODULE**.

		Module -1	***Bloom's Taxonomy Level**	**Marks**
Q.01	a	Define engineering research and list its aims and objectives.	L1	7
	b	What are the factors that motivate you to do engineering research? Briefly explain	L2	7
	c	Compare descriptive research versus analytical research with examples.	L2	6
		OR		
Q.02	a	What is the meaning of ethics and why is it important in the practice of engineering research?	L1	7
	b	Write a note on the following research misconduct (i) Falsification (ii) plagiarism.	L2	8
	c	What are three ways to credit the research contributions? Explain	L2	5
		Module-2		
Q. 03	a	How does the existing knowledge can contribute to the research process? Explain with relevant points.	L2	5
	b	What are the key features of the bibliographic database of the Web of Science (WoS), and how is it commonly used in research?	L1	7
	c	List and explain the Importance of Note-taking while reading research papers.	L1	8
		OR		
Q.04	a	What types of citations fail to achieve their goal and do not benefit the reader? Explain.	L2	8
	b	Illustrate using a flowchart, how collaboration in a Co-authorship network can improve the flow of knowledge in the research.	L3	6
	c	Explain the most common styles for citation used by engineers during research, and provide an example.	L1	6
		Module-3		
Q. 05	a	Describe Intellectual Property Rights (IPR) and list its types.	L1	6
	b	Define the term patent and what are the conditions that must be met for obtaining patent protection?	L2	8
	c	What are Patent Infringements? Explain its two categories of Infringements.	L1	6
		OR		

Q. 06	a	Explain the following major steps involved in the process of patent registration. *(i)* Prior Art Search (ii) Choice of Application to be Filed (ii) Pre-grant Opposition	L2	10
	b	In which circumstances Indian residents are not required to file a patent application first in India to get patent protection in another country? Explain.	L3	6
	c	Name the four national bodies dealing with patent affairs	L2	4
Module-4				
Q. 07	a	What are the key considerations and tests for determining fair use doctrine under copyright law? Explain with examples.	L2	5
	b	Using a Flow chart, explain the important steps involved in the process of Copyright Registration.	L2	9
	c	What were the key events and circumstances surrounding the copyright dispute between photographer David Slater and the macaques in Indonesia in 2011? Explain.	L2	6
OR				
Q. 08	a	What are the different categories of trademarks recognized under Indian law, and tabulate the famous trademark types with examples	L2	10
	b	Explain by using a process flowchart, the steps involved in trademark registration.	L2	10
Module-5				
Q. 09	a	Describe the enforcement of Industrial Design Rights.	L1	5
	b	Explain the classification of Industrial Designs and design registration trends in India.	L1	7
	c	Explain registered Geographical Indications (GI) in India with the tabulate of examples.	L2	8
OR				
Q. 10	a	Explain the Identification of Registered Geographical Indications (GI) items. What are the common methods used to project GI in India.	L1	10
	b	Using a flowchart, explain the process of GI registration.	L2	10

*Bloom's Taxonomy Level: Indicate as L1, L2, L3, L4, etc. It is also desirable to indicate the COs and POs to be attained by every bit of questions.