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Gandhi Institute of Engineering and Technology University, Odisha, Gunupur (GIET University)



B. Tech (Eighth Semester - Regular) Examinations, April - 2026
22BELOE48011/22BEEOE48011 - Design Thinking & IPR
(EE/EEE)

Time: 3 hrs

Maximum: 70 Marks

Answer ALL questions
(The figures in the right hand margin indicate marks)

PART – A**(2 x 5 = 10 Marks)**Q.1. Answer **ALL** questions

- a. State two characteristics of Design Thinking.
- b. Define SCAMPER technique.
- c. What is value-based healthcare?
- d. What is misuse of IPR?
- e. Mention an IP treaty.

CO #	Blooms Level
CO1	K2
CO3	K1
CO4	K2
CO5	K1
CO6	K2

PART – B**(15 x 4 = 60 Marks)**Answer **ALL** the questions

2. a. Describe incremental and disruptive innovation.
- b. Explain lateral, convergent and divergent thinking.

Marks	CO #	Blooms Level
8	CO1	K3
7	CO1	K2

(OR)

- c. Explain the empathy and problem definition stages of the Design Thinking process, and analyze how insights gathered during the empathy stage can be effectively applied to frame a clear and user-centric problem statement
- d. Explain the complete Design Thinking process and apply its stages to analyze how innovative and user-centered solutions can be developed for real-world problems
- 3.a. Describe the Five Whys technique with a suitable real-world example.
- b. Explain the importance of prototyping in the Design Thinking process.

Marks	CO #	Blooms Level
8	CO2	K2
7	CO2	K2
8	CO3	K3
7	CO3	K2

(OR)

- c. Explain the role of Design Thinking in modern learning environments with relevant examples.
- d. Explain the importance of prototyping in the Design Thinking process for effective solution development.
- 4.a. Explain the concepts of industrial property and copyright in intellectual property rights.
- b. Discuss the economic importance of intellectual property rights in innovation and development.

Marks	CO #	Blooms Level
8	CO3	K2
7	CO3	K2
8	CO3	K2
7	CO3	K4

(OR)

- c. Discuss the issues related to compliance and liability in intellectual property rights and their implications.
- d. Explain the key regulatory issues involved in intellectual property rights and protection.
- 5.a. Discuss the provisions and scope of copyright law in India with key features
- b. Explain the role of World Intellectual Property Organization(WIPO) in global intellectual property protection and regulation.

Marks	CO #	Blooms Level
8	CO4	K4
7	CO4	K2
8	CO5	K4
7	CO5	K2

(OR)

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| c. Discuss major international intellectual property treaties and their global significance | 8 | CO6 | K4 |
| d. Discuss key challenges in global intellectual property protection and enforcement | 7 | CO6 | K4 |

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