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**BTECH**  
**(SEM VII) THEORY EXAMINATION 2025-26**  
**DESIGN THINKING**

TIME: 3 HRS

M.MARKS: 70

**Note:** Attempt all Sections. In case of any missing data; choose suitably.

**SECTION A**

**1. Attempt all questions in brief.**

**02 x 7 = 14**

Q no.	Question	CO	Level
a.	Define design thinking and list its key characteristics.	1	K1
b.	What are wicked problems? Give one example.	2	K1
c.	Explain the concept of empathy in design thinking.	3	K1
d.	Define Point of View (POV) statement with an example.	4	K1
e.	What is cognitive bias? Name any two types.	5	K1
f.	Define argument and premise with an example.	4	K1
g.	What are the five pillars of critical thinking?	3	K1

**SECTION B**

**2. Attempt any three of the following:**

**07 x 3 = 21**

a.	Explain traditional problem solving vs. design thinking with suitable examples.	1	K2
b.	Discuss the role of culture and ethics in multidisciplinary teamwork.	2	K2
c.	Describe the double diamond approach with neat illustration.	3	K2
d.	Explain cognitive biases and their impact on decision-making.	4	K2
e.	Discuss logical fallacies with at least three examples.	5	K2

**SECTION C**

**3. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Discuss the importance of innovation and creativity in modern organizations.	1	K2
b.	Explain the concept of design mindset and its relevance in team environments.	1	K2

**4. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Describe the empathy tools such as interviews, empathy maps, and journey maps.	2	K2
b.	Explain the process of classifying insights after observations.	2	K2

**5. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Write a detailed note on ideation techniques such as 'How Might We', mind maps, and brainstorming.	3	K2
b.	Explain the use of six thinking hats in ideation with an example.	3	K2

**6. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Differentiate between critical and ordinary thinking with examples.	4	K2
b.	Discuss major cognitive biases and strategies to overcome them.	4	K2

**7. Attempt any one part of the following:**

**07 x 1 = 07**

a.	Explain deductive arguments and argument diagrams with examples.	5	K2
b.	Discuss logical reasoning and scientific reasoning in decision-making.	5	K2



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