



Roll No. : .....

**Galgotias College of Engineering and Technology, Greater Noida**

**Pre University Test (PUT) : Odd Semester 2024.. - 25.....**

Course/Branch : B.Tech/ CS,CS-AI,CS-DS,AI-DS,AI-ML,CSD Semester : 7  
Subject Name : Design Thinking Max Marks : 100  
Subject Code : KOE-077 Time : 180 min

*CO-1: Develop a strong understanding of the design process and apply it in a variety of business settings*  
*CO-2: Analyze self, culture, teamwork to work in a multidisciplinary environment and exhibit empathetic behavior*

*CO-3: Formulate specific problem statements of real time issues and generate innovative ideas using design tools*

*CO-4: Apply critical thinking skills in order to arrive at the root cause from a set of likely causes*

*CO-5: Demonstrate an enhanced ability to apply design thinking skills for evaluation of claims and arguments.*

**Section – A # 20 Marks**

Q.1: Attempt ALL questions in brief. Each question is of 2 marks. (10 x 2 = 20 Marks)

- (CO-1) Define Wicked problems? (BKL: K1)
- (CO-1) Write a short note on Musical Notes with respect to Design Thinking. (BKL: K2)
- (CO-2) Describe Outline the difference b/w Prosperity vs. Success. (BKL: K2)
- (CO-2) Elaborate the Key characteristics of Startup culture. (BKL: K2)
- (CO-3) Explain Differentiate b/w Metaphor and Random Association Technique. (BKL: K1)
- (CO-3) Define Mural and Jam board in brief. (BKL: K1)
- (CO-4) Discuss Critical thinking and explain its fundamental principles. (BKL: K2)
- (CO-4) Analyze the difference between Assumptions and facts in Argument construction. (BKL: K2)
- (CO-5) Explain different type of Arguments. (BKL: K2)
- (CO-5) State Logic with example? (BKL: K2)

**Section – B # 30 Marks**

Attempt ALL questions. Each question is of 6 marks. (5 x 6 = 30 Marks)

Q.2 (CO-1): Differentiate between traditional problem solving versus design thinking with the help of example. (BKL: K2)

OR

Differentiate between creativity and innovation? What is the role of design thinking in innovation? (BKL: K2)

Q.3 (CO-2): Enumerate empathy tools and their Do's and Don'ts. (BKL: K2)

OR

Summarize different human goals? (BKL: K2)

Q.4 (CO-3): Elaborate Double Diamond approach? (BKL: K2)

OR

Write down various collaboration and brain-storming tools in details. (BKL: K2)

Q.5 (CO-4): List all the 5 pillars of Critical Thinking. (BKL: K2)

OR

Elaborate the different structures of an Argument. (BKL: K2)

Q.6 (CO-5): Define claim? Explain different types of Claims in detail. (BKL: K2)

OR

Explain and Differentiate Types of Logical Reasoning.

**Section – C # 50 Marks**

Q.7 (CO-1): Attempt any **ONE** questions. Each question is of 10 marks. (10 x 1 = 10 Marks)

- a) Write a note about the History of Design-Thinking. (BKL: K2)
- b) Write down the strategies to increase the Innovation & Creativity in the organizations.(BKL: K2)

Q.8 (CO-2): Attempt any **ONE** questions. Each question is of 10 marks. (10 x 1 = 10 Marks)

- a) Elaborate Maslow's Hierarchy of needs. (BKL: K2)
- b) Define the gap between Desire and Actualization. (BKL: K2)

Q.9 (CO-3): Attempt any **ONE** questions. Each question is of 10 marks. (10 x 1 = 10 Marks)

- a) Define Ice-Cream Stick strategy of defining a problem. (BKL: K1)
- b) Write down various Collaboration and Brain-Storming tools in details.(BKL: K2)

Q.10 (CO-4): Attempt any **ONE** questions. Each question is of 10 marks. (10 x 1 = 10 Marks)

- a) Discuss Elaborate the different structures of an Argument. (BKL: K2)
- b) Elaborate Incongruence & the reasons to develop it and how to deal with Incongruence.(BKL: K2)

Q.11 (CO-5): Attempt any **ONE** questions. Each question is of 10 marks. (10 x 1 = 10 Marks)

- a) Discuss the various ways to identify Premises and Conclusion? (BKL: K2)
- b) Differentiate between Truth condition and Logic condition with the help of examples?(BKL: K2)

