

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2025
(Third Semester)

Branch - COMPUTER SCIENCE
DESIGN THINKING

Time: Three Hours

Maximum: 75 Marks

SECTION-A (10 Marks)

Answer ALL questions

ALL questions carry EQUAL marks (10 × 1 = 10)

Module No.	Question No.	Question	K Level	CO
1	1	Which of the following is typically the first step in the design process? a) Testing the solution b) Defining the problem c) Creating prototypes d) Conducting market research	K1	CO1
	2	What is MVP in Design thinking stands for? a) Maximum Viable Prototype b) Minimum Valuable Product c) Minimum Viable Product d) Most Valuable Plan	K2	CO2
2	3	In Design Thinking, sketching is primarily used to: a) Create final designs b) Visualize ideas and concepts quickly c) Document technical specifications d) Prepare marketing materials	K1	CO1
	4	Which tool is commonly used during the "Define" phase of Design Thinking? a) Mind Maps b) Customer Journey Maps c) Brainstorming d) SWOT Analysis	K2	CO2
3	5	Which phase below is to Confirm that the product or prototype effectively meets user needs through testing? a) Define b) Empathise c) Validation d) Test	K1	CO1
	6	Which of the following are NOT tools of visualization? a) Maps b) Images c) Stories d) Videos	K2	CO2
4	7	Which of the below firm is highly associated the most with Design Thinking? a) Ikeayo b) Ideo c) Idea d) Ikeyi	K1	CO1
	8	During the "Ideation" phase, which technique is often used to generate innovative ideas? a) Mind mapping b) SWOT analysis c) Brainstorming d) Competitive analysis	K2	CO2
5	9	What is the role of "Dot Voting" in design thinking workshops? a) Creating a detailed prototype b) Participants vote on their favourite ideas using dot stickers c) Ignoring user feedback d) Developing a single prototype	K1	CO1
	10	Which of the following is the correct sequence of stages in the Design Thinking process? a) Empathize, Define, Ideate, Prototype, Test b) Define, Prototype, Empathize, Test, Ideate c) Ideate, Define, Empathize, Prototype, Test d) Prototype, Test, Ideate, Define, Empathize	K2	CO2

Cont...

SECTION - B (35 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks

(5 × 7 = 35)

Module No.	Question No.	Question	K Level	CO
1	11.a.	Explain the stages ideate and prototype in the design process. (OR)	K6	CO5
	11.b.	Elaborate on the Minimum Viable Product (MVP) in the design process.		
	12.a.	How the Visual metaphors and Humour personification and sketching helps in idea generation in design. (OR)		
2	12.b.	Explain about the thinking in shapes, proportions, and colour.	K6	CO5
	13.a.	List and explain the types of prototypes. (OR)		
	13.b.	Create a design thinking in IT.		
3	14.a.	Outline the importance of Design Thinking in for strategic growth and innovation. (OR)	K6	CO3
	14.b.	Elaborate on story telling representation in Design Thinking.		
	15.a.	How can we measure the success of the design? (OR)		
5	15.b.	How do you create an Ideation workshop?	K4	CO1

SECTION - C (30 Marks)

Answer ANY THREE questions

ALL questions carry EQUAL Marks

(3 × 10 = 30)

Module No.	Question No.	Question	K Level	CO
1	16	Explain how the design thinking shared model works in team-based design.	K4	CO1
2	17	Discuss on Real-Time design interaction capture and analysis.	K6	CO4
3	18	Construct Agile in virtual thinking Environment.	K6	CO3
4	19	Elaborate on Business Model Design.	K3	CO2
5	20	What are the stages in design thinking workshop? Explain.	K6	CO5

Z-Z-Z END