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Question Paper Version: A

First/Second Semester B.E./B.Tech. Degree Examination, Nov./Dec. 2023
Innovation and Design Thinking

Time: 1 hr.]

3.

Max. Marks: 50

	INSTRUCTIONS TO THE CANDIDATES				
1.	Answer all the fifty questions, each question carries one mark.				
2.	Use only Black ball point pen for writing / darkening the circles.				
3.	For each question, after selecting your answer, darken the appropriate circle				
	corresponding to the same question number on the OMR sheet.				
4.	Darkening two circles for the same question makes the answer invalid.				
5.	Damaging/overwriting, using whiteners on the OMR sheets are strictly				
	prohibited.				
1.	What is the main focus of design thinking?				
	a) The designer b) The user c) The business d) The technology				
2.	Why is it important to create a shared model in team-based design?				
	a) To ensure effective communication and collaboration.				
	b) To validate assumptions about the solution.				
	c) To test the final product.				
	d) To create a polished final product.				

4. What is the primary goal of the define stage in design thinking?

b) Ideate stage

The empathize stage in design thinking is also known as the _

- a) To understand the problem and user's needs.
- b) To generate creative solutions.
- c) To build and test prototypes.
- d) To analyze data and feedback.
- 5. Which of the following is not a common technique used in the define stage?
 - a) Empathy maps

a) Observe stage

b) Brain storming

c) Understand stage

c) User research

- d) Building a prototype.
- 6. What is the output of the define stage in design thinking?
 - a) A list of potential solutions

b) A clear problem statement and user needs

c) A working prototype

d) User feedback and data analysis.

7.	What is the main idea behind the ideate stage? a) To generate a large number of ideas to solve the problem. b) To validate the existing solution. c) To identify the problem and user needs. d) To test the prototypes.	
8.	Which of the following is not a common technique used in the test stage? a) User testing b) Surveys c) User observation d) Mind mapping.	
9.	The test stage in design thinking is also known as the stage. a) Evaluate stage b) Prototype stage c) Understand stage d) Test stage.	
10.	Which of the following is an example of a project management software? a) Invision b) Trello c) Google meet d) Adobe XD	
11.	What is the main benefit of using a design thinking approach in IT? a) Efficiency b) Cost effectiveness c) Improved user satisfaction d) Innovation.	
12.	Which of the following is not a stage in design thinking process? a) Test b) Empathize c) Define d) Plan	
13.	What is the primary benefit of using an MVP approach in product development? a) It allows for rapid iteration and feedback c) It saves time and resources b) It guarantees the success of final product d) It ensures a high quality final product.	ct
14.	What tool is used to create a visual representation of a process or work-flow? a) Flow charts b) PERT diagrams c) Gantt charts d) Mind maps	
15.	What is an example of a method for conducting user research? a) Surveys b) A/B testing c) Usability testing d) Design sprints	
16.	What is the main objective of the empathize stage in design thinking? a) Understanding the problem b) Generating ideas c) Identifying the user needs d) Building prototypes	
17.	Choose the answer option that reflects a technique that is not used in the empathiz	ze
4	stage? a) User interviews b) Surveys c) Brain storming d) User observation	1
18.	During the empathize stage, what is the main focus of the designer? a) Identifying problems b) Generating ideas c) Understanding the users needs, wants and pain points d) Building prototypes.	
19.	What is the primary goal of the ideate stage in design thinking? a) To understand the problem and users needs b) To generate creative solutions c) To build and test prototypes d) To understand the users emotions and perspectives.	

20.	What is the output of the ideate stage in do a) A list of potential solution b) A clear problem statement and user nee c) A working prototype d) A deep understanding of the user's emo	eds	
21.	"How might we" questions are generated a) Empathize b) Define	during which stage of des	sign thinking process? d) Test
22.	What is the main focus of design thinking a) Efficiency c) User-centeredness	in IT? b) Cost effectiveness d) Innovation	
23.	What is an example of a tool to understanda) User testing b) User centred des		n points and goals? d) Empathy maps
24.	What is the primary goal of the test stage a) To understand the problem and the user b) To generate creative solutions c) To build and test a physical or virtual re d) To gather feed back and data to improve	rs needs epresentation of the solut	ion
25.	What is the main goal of professional presa) To create visually stunning and effective b) To generate revenue c) To entertain the audience d) To create a polished final product.	sentation designers?	
26.	What is the main focus of profess presentations? a) The designer b) The user	c) The business	d) The technology
27.	What is the main goal of an MVP? a) To create a fully featured product b) To validate a product idea and gather for the county of the market	eedback	
28.	d) To generate revenue.Which of the following is an example of aa) A fully-featured mobile app.c) A wireframe of a website	an MVP? b) A landing page wind) A working model of	
29.	Which of the following is an example of a a) A wireframe of a website c) A finished mobile app	,	of a car
30.	What is the first step in reverse engineering	ng process?	
	a) Disassembly b) Analysis	c) Reconstruction	d) Documentation
31.	Which type of reverse engineering involves breaking down a product into its constituer parts to analyze its design?		
	a) Physical reverse engineering	b) Functional reverse	
	c) Software reverse engineering	d) Data reverse engin	eering
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32.	Which tool is commonly used in reverse enphysical object? a) CAD software c) Rapid prototyping	b) Design thinking d) Usability testing	
33.	What is the purpose of reverse engineering i a) To identify the design flaws c) To understand the manufacturing process	b) To improve the product functionality	
34.	Which of the following is not a benefit of re a) Improved product design c) Enhanced customer satisfaction	verse engineering? b) Reduced manufacturing cost d) Increased product development time.	
35.	What is the main purpose of reverse engineera) To copy an existing product design c) To create a new product from scratch	b) To understand how a product works d) To save time in design process.	
36.	Which of the following is not a step in the ra) Disassembly b) Analysis	everse engineering process? c) Redesign d) Documentation	
37.	What is the benefits of using reverse engineering in product design? a) It allows for quick and easy product development. b) It helps to identify potential design flaws. c) It eliminates the need for product testing. d) It reduces the cost of production.		
38.	Which of the following industries common process? a) Automobile b) Fashion	only uses reverse engineering in their design c) Agriculture d) Finance	
39.	What is the purpose of the technical drawin a) To communicate design ideas visually c) To conduct user research	g in design thinking process? b) To test the usability of a product d) To analyze market trends.	
40.	Which of the following is an example of process? a) A user persona c) A wire frame	a technical drawing used in design thinkingb) A flow chartd) A customer journey map.	
41.	What is the benefits of creating technical da) It helps to identify user pain points b) It allows for quick iteration and refinem c) It provides insight into market trends d) It improves team collaboration.		
42.	What tool can be used to create technical day Adobe photoshop b) Invision	rawing in the design thinking process? c) Sketch d) Trello	
43.	Which stage of the design thinking process a) Ideate b) Prototype	s involves creating technical drawing c) Test d) Empathize	

44.	what is the purpose of creating technical drawings in the design process? a) To communicate design ideas to stakeholders b) To generate new design ideas c) To conduct user research
45.	d) To test prototypes. Which of the following is an example of a tool for creating technical drawing? a) Adobe photoshop b) Sketch c) Auto CAD d) Invision
46.	What is the primary goal of the prototype stage in design thinking? a) To understand the problem and the users needs. b) To generate creative solutions. c) To build and test a physical or virtual representation of the solution. d) To understand the users emotions and perspectives.
47.	Which of the following is not a common technique used in the prototype stage? a) Sketching b) Surveys c) User observation d) Rapid prototyping.
48.	What is the output of the prototype stage in design thinking? a) A list of potential solutions b) A clear problem statement c) A working prototype d) A deep understanding of the user's emotions and perspectives.
49.	The prototype stage in design thinking is also known as the stage. a) Converge stage b) Test stage c) Understand stage d) Prototype stage.
50.	a) It saves time and resourcesb) It allows for rapid iteration and feedbackc) It guarantees the success of the final product
	d) It ensures a high-quality final product. ***** 5 of 5
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