

USN											Question Paper Version: A
First/	Sec	on	d S	em	est	er l	B.E	./B	.Te	ech.	Degree Examination, Nov./Dec. 2023

	Innovation and Do	esign Thinkin	<b>9</b>
ime:	: 1 hr.]		[Max. Marks: 50
	INSTRUCTIONS TO	THE CANDIDA	TEC
	INSTRUCTIONS IX	7 THE CANDIDA	IES
1.	Answer all the <b>fifty</b> questions, each quest	ion carries one mark.	
2.	Use only Black ball point pen for writing	g / darkening the circ	les.
3.	For each question, after selecting your	answer, darken the	appropriate circle
	corresponding to the same question nur	mber on the OMR s	heet.
4.	Darkening two circles for the same questi	on makes the answer	invalid.
5.	Damaging/overwriting, using whiten	ers 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 a) To ensure effective communication and co b) To validate assumptions about the solution c) To test the final product. d) To create a polished final product.	llaboration.	
3.	The empathize stage in design thinking is also a) Observe stage b) Ideate stage	o known as thes c) Understand stage	_
4.	What is the primary goal of the define stage if a) To understand the problem and user's need b) To generate creative solutions. c) To build and test prototypes. d) To analyze data and feedback.		
5.		nnique used in the defin b) Brain storming d) Building a prototype	_
6.	· ·	gn thinking? b) A clear problem stat d) User feedback and d	

7.	What is the main idea a) To generate a large b) To validate the exis c) To identify the prol d) To test the prototyp	number of ideas to so sting solution. blem and user needs.		
8.	Which of the following a) User testing	ng is not a common tec b) Surveys	chnique used in the test c) User observation	stage? d) Mind mapping.
9.	The test stage in designal Evaluate stage	n thinking is also kno b) Prototype stage	wn as the stage. c) Understand stage	d) Test stage.
10.	Which of the followin a) Invision	g is an example of a p b) Trello	oroject management soft c) Google meet	tware? d) Adobe XD
11.	What is the main beneal Efficiency c) Improved user satisfy		hinking approach in IT? b) Cost effectiveness d) Innovation.	)
12.	Which of the following a) Test		ign thinking process? c) Define	d) Plan
13.		teration and feedback	P approach in product of b) It guarantees the sud) It ensures a high qu	access of final product
14.	What tool is used to c a) Flow charts	reate a visual represen b) PERT diagrams	tation of a process or w c) Gantt charts	ork-flow? d) Mind maps
15.	What is an example o a) Surveys		ting user research? c) Usability testing	d) Design sprints
16.	What is the main obje a) Understanding the c) Identifying the user	problem	e stage in design thinkin b) Generating ideas d) Building prototypes	
17.	Choose the answer of stage?  a) User interviews		c) Brain storming	used in the empathize d) User observation
18.	During the empathize a) Identifying problem b) Generating ideas c) Understanding the d) Building prototype	users needs, wants and	n focus of the designer	?
19.	What is the primary g a) To understand the p b) To generate creativ c) To build and test p d) To understand the p	problem and users need re solutions rototypes	ds	
		2	of 5	

20.	What is the output of the ideate stage in deal A list of potential solution b) A clear problem statement and user needs c) A working prototype d) A deep understanding of the user's emotions.	eds	
21.	"How might we" questions are generated a) Empathize b) Define	during which stage of de	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 understantal a) 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.		
26.	What is the main focus of profess presentations? a) The designer b) The user	c) The business	igners when creating 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 c) To release a product to the market d) To generate revenue.	eedback	
28.	Which of the following is an example of a a) A fully-featured mobile app. c) A wireframe of a website	on MVP? b) A landing page wit d) A working model of	<u> </u>
29.	Which of the following is an example of a a) A wireframe of a website c) A finished mobile app	b) A working model of d) A product brochure	
30.	What is the first step in reverse engineering a) Disassembly b) Analysis	ng process? c) Reconstruction	d) Documentation
31.	Which type of reverse engineering involvements to analyze its design?  a) Physical reverse engineering c) Software reverse engineering	b) Functional reverse d) Data reverse engin 3 of 5	engineering

32.	Which tool is commonly used in reverse e physical object?	engineering to create a	digital 3D model of a
	a) CAD software	b) Design thinking	
	c) Rapid prototyping	d) Usability testing	
33.	What is the purpose of reverse engineering	in product design?	
33.	a) To identify the design flaws	b) To improve the pro	duct functionality
	c) To understand the manufacturing process		auct functionanty
			$\rightarrow$
34.	Which of the following is not a benefit of re		
	a) Improved product design	b) Reduced manufactu	_
	c) Enhanced customer satisfaction	d) Increased product of	levelopment time.
35.	What is the main purpose of reverse engineer	ering in product design?	?
	a) To copy an existing product design	b) To understand how	
	c) To create a new product from scratch	d) To save time in des	ign process.
36.	Which of the following is not a step in the re	everse engineering proc	cess?
	a) Disassembly b) Analysis	c) Redesign	d) Documentation
25	W/I 4 : 41 1		n
37.	What is the benefits of using reverse engine a) It allows for quick and easy product deve		!
	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 commo	nly ugas ravarsa angin	paring in their decign
30.	process?	mry uses reverse engin	icering in their design
	a) Automobile b) Fashion	c) Agriculture	d) Finance
20	W14:4	2	0
39.	What is the purpose of the technical drawing a) To communicate design ideas visually		
	c) To conduct user research	d) To analyze market	
40.	Which of the following is an example of	a technical drawing us	sed in design thinking
	process? a) A user persona	b) A flow chart	
	c) A wire frame	d) A customer journey	/ man
			_
41.	What is the benefits of creating technical dr	awings during the desig	n thinking process?
	a) It helps to identify user pain points	nt of docion ideas	
	<ul><li>b) It allows for quick iteration and refineme</li><li>c) It provides insight into market trends</li></ul>	iit of design ideas	
	d) It improves team collaboration.		
<b>42.</b>	What tool can be used to create technical dr		~ -
	a) Adobe photoshop b) Invision	c) Sketch	d) Trello
43.	Which stage of the design thinking process	involves creating techni	ical drawing
	a) Ideate b) Prototype	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 d) To test prototypes.
45.	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.	What is the primary benefit of using a prototyping approach in product development?  a) It saves time and resources b) It allows for rapid iteration and feedback c) It guarantees the success of the final product d) It ensures a high-quality final product.
	What is the primary benefit of using a prototyping approach in product development?  a) It saves time and resources b) It allows for rapid iteration and feedback c) It guarantees the success of the final product d) It ensures a high-quality final product.  ******