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BALLARI INSTITUTE OF TECHNOLOGY & MANAGEMENT

(Autonomous Institute under Visvesvaraya Technological University, Belagavi)

USN		Course Code21DTI39			
	Third Semester B.E. Degree Examinations, April/May 2023				
	e	AND INNOVATION			
Durati	on: 2 hr	Max. Marks: 100			
Note:	 All questions are compulsory 2. Each question Darkening two circles for the same question may Damaging/overwriting using whiteners on the Computer of the same question and the computer of the same question and the same questi	arks the answer invalid			
<u>Q. No</u>		<u>Question</u>			
1	What is the first step in the design thinking pro-	ocess?			
	A) Empathy B) Define	C) Ideate D) Prototype			
2	What is the main goal of the empathy phase in	the design thinking process?			
	A) understand the user's needs and wants	B) create a solution			
	C) test the solution	D) refine the solution			
3	What is the main purpose of the Define phase				
	A) create a solution	B) understand the user's needs and wants			
	C) identify the problem	D) refine the solution			
4	What is the Ideate phase in design thinking?				
	A) The phase where the user's needs and	B) The phase where the problem is defined			
	wants are understood	b) The phase where the problem is defined			
		D) The phase where the solution is tested			
5	C) The phase where a solution is created	D) The phase where the solution is tested			
5	What is the Prototype phase in design thinking				
	A) The phase where the solution is tested	B) The phase where the solution is refined			
	C) The phase where a solution is created	D) The phase where the user's needs and wants are understood			
6	What is the Test phase in design thinking?				
	A) The phase where the solution is refined	B) The phase where the solution is tested			
	C) The phase where a solution is created	D) The phase where the user's needs and wants are			
		understood			
7	What is the Refine phase in design thinking?				
	A) The phase where the solution is refined	B) The phase where the solution is tested			
	C) The phase where a solution is created	D) The phase where the user's needs and wants are			
	understood				
8	8 What is the main goal of design thinking in theory?				
	A) To create innovative solutions to complex				
	C) To follow a set of strict rules and	D) To solve problems in a logical and structured way			
	guideline				
9	How is design thinking applied in practice?				
-	A) By following a strict set of rules and	B) By using a user-centered approach to solving			
	guidelines	problems			
	C) By relying solely on existing solutions	D) By following a linear process			
10	What are some methods used in the Ideate pha				
10	A) Brainstorming, mind-mapping, and	B) Surveys, focus groups, and interviews			
	scenario planning	b) Surveys, rocus groups, and micricies			
		D) Testing and evaluating			
	C) Problem statement creation and analysis	D) Testing and evaluating			

11	Why is it important to generate multiple ideas in the Ideate phase?		
	A) It helps to ensure that the best solution is chosenB) It helps to create a solution that mee the user's needs		
	C) It provides multiple options for testing and	D)The phase where the solution is tested	
	evaluating	D) The phase where the solution is tested	
12	What is the role of creativity in the Ideate phas	e of design thinking?	
	A) To create a solution that is profitable	B) To generate new and innovative ideas	
	C) To test the solution	D) To understand the user's motivations and	
13	What is the main goal of the Prototype phase in	n design thinking?	
	A) To generate ideas for a solution	B) To create a physical or visual representation of	
		the solution	
	C) To test the solution	D) To define the problem	
14	Why is the Prototype phase important in design	•	
	A) It helps to create a solution that meets the	B) It helps to generate ideas for a solution	
	user's needs	D) It halps to understand the user's mativations and	
	C) It helps to test and evaluate the solution	D) It helps to understand the user's motivations and behaviours	
15	What are some types of prototypes that can be		
10	A) Physical prototypes, digital prototypes,	B) Surveys, focus groups, and interviews	
	and wire frames		
	C) Problem statement creation and analysis	D) Testing and evaluating	
16	Design thinking principles do not include:		
	A) Feasibility B) Viability	C) Desirability D) Credibility	
17	What is a shared model in team-based design?		
	A) A shared understanding of the design proce		
	B) A shared vision of the final product or solutC) A shared set of tools and techniques used b		
	D) A shared understanding of the design probl		
18	What is the MVP (Minimum Viable Product)?		
10	A)A fully functional and polished product		
	B) A basic version of a product with only the e	essential features	
	C) A product with a complete set of features an		
	D) A product with limited functionality and fea	atures	
19	What is the purpose of creating an MVP?		
	A) To gather feedback from users and make	B) To quickly launch a fully functional product	
	improvements		
	C) To test market demand	D) To have a complete product with all features and functionality	
20	What are the components of an MVP?	Tunenonanty	
20	A) Essential features and functionality	B) Complete set of features and functionality	
	C) It allows for immediate market release	D) Polished design and user interface	
21	What are the limitations of an MVP approach?		
	A) It may not fully address user needs or solve		
	B) It may not have the design and user interface	•	
	C) It may not have all the features and function	nality desired by users	
22	D) All of the above		
22	What is Fidelity Prototyping in design thinking		
	A) The process of creating a detailed and functional prototype	B) The process of creating a basic and rough	
	C) The process of testing the prototype	prototype D) The process of gathering user feedback on the	
	c, the process of using the prototype	prototype	
		1 71-	
22	With the second of the second second in D	anian Thinking?	

What are some of the common tools used in Design Thinking?
 A) Mind maps
 B) User research and surveys
 C) Prototyping tools
 D) All of these

24	What is the purpose of using mind maps in DeA) To gather and organize informationC) To validate the viability of the product or solution	B) To create detailed and fur	
25	What are some of the commonly used prototyp		
26	 A) Sketch B) In Vision What are some common methods of capturing A) User observation and testing C) Heat maps and click tracking 	C) Axureuser interactions in real-timeB) Surveys and questionnairD) All of these	-
27	What is the purpose of enabling efficient collaA) To improve communication and collaboratiB) To reduce errors and improve the quality of	boration in digital design spac ion among team members f the final product	es?
28	 C) To increase productivity and save time What are some common tools used for enablin A) Project management software C) File charge and evention control alt former 	B) Video conferencing and s	
29	C) File sharing and version control platformsWhat are some challenges of enabling efficienA) Resistance to change and adoption of new tools	t collaboration in digital desig	
30	C) Data security and privacy concernsWhat is the primary goal of Design Thinking iA) To create aesthetically pleasing products	D) All of the aboven Information Technology?B) To solve complex problem way	ns in a user-centered
	C) To create products with the latest technology	D) To create products with the	he lowest cost
31	To empathize, one has to A) Observe B) Engage	C) Listen	D) All of these
32	Which of the following is NOT one of the five A) Refine B) Ideate	stages of Design Thinking? C) Test	D) Analyze
33	What is the purpose of prototyping in Design 7 A) To validate assumptions	Thinking? B) To generate ideas	, .
34	C) To produce the final productWhat is the main benefit of involving users inA) To get their feedback on the designC) To reduce the risk of failure	 D) To conduct market resear the Design Thinking process? B) To increase their satisfact D) To improve the aesthetic 	tion with the product
35	What is the role of iteration in Design Thinkin A) To make changes to the design based on feedback	· •	-
	C) To replace user feedback with expert opinions	D) To make the design more	aesthetically pleasing
36	What is the primary benefit of using Design ThA) Improved customer satisfactionC) Faster time to market	hinking in Information Techno B) Increased profitability D) All of the above	blogy?
37	What is the primary benefit of using Agile in aA) Improved communication and collaborationB) Improved efficiency and productivity		ment?
38	C) Improved customer satisfactionWhat is the role of prototyping in Design ThinA) To provide a visual representation of the so	oftware B) To test and	validate ideas with users
39	 C) To generate new ideas and solutions What is the role of experimentation in Design A) To test and validate innovative solutions C) To generate new ideas and solutions 	 D) To track the progress of th Thinking for Strategic Innova B) To prioritize tasks and D) To track the progress of 	tion? activities for innovation

40	What is the role of prototyping in Design Thinking for Strategic Innovation?		
	A) To provide a visual representation of innovative solutions		
	B) To test and validate innovative solutions		
	C) To generate new ideas and solutions D) To track the progress of innovation		
41	What is the main advantage of using Design Thinking for Strategic Innovation over traditional		
	approaches?		
	A) Improved customer satisfaction B) Improved efficiency and productivity		
	C) Improved innovation outcome D) All of the above		
42	What is Growth Design Thinking?		
	A) A process to help businesses grow and increase profitability		
	B) A process to design physical products		
	C) A process for improving customer satisfaction D) A process for maintaining the status quo		
43	What is the goal of Growth Design Thinking?		
	A) To improve efficiency and productivity B) To generate new ideas and solutions		
	C) To increase revenue and market share D) To maintain the status quo		
44	What is the role of data-driven decision making in Growth Design Thinking?		
	A) To make decisions based on data and insights B) To prioritize tasks and activities for growth		
	C) To generate new ideas and solutions D) To track the progress of growth		
45	What is the main advantage of using Growth Design Thinking over traditional business growth		
	approaches?		
	A) Improved customer satisfactionB) Improved efficiency and productivity		
	C) Improved business growth outcomes D) All of the above		
46	What is the main goal of using Design Thinking approach for business growth?		
	A) To generate new ideas and solutions B) To improve business performance and competitiveness		
4.5	C) To increase customer satisfaction D) To maintain the status quo		
47	What is the main advantage of using Design Thinking approach for business growth over traditional		
	business growth approaches?		
	A) Improved customer satisfaction B) Improved efficiency and productivity		
40	C) Improved business growth outcomes D) All of the above		
48	What is the main purpose of storytelling in representation?		
	 A) To provide data and statistics B) To entertain and engage the audience D) To ensuring tacking and ideas 		
49	C) To communicate information and ideas D) To provide technical details What is the main benefit of using change design thinking to solve complex problems?		
79	A) Increased innovation and positive impact B) Improved efficiency and productivity		
	C) Reduced risk and uncertainty D) All of the above		
50	What is the main purpose of change design thinking?		
50	A) To solve complex problems and bring about positive change		
	B) To create new products and services		
	C) To increase efficiency and productivity D) To manage risk and uncertainty		
51	What is the role of intuition in sense making?		
A) Rely on past experiences and gut feelings to make decisions			
	B) Systematically analyze data an information C) Collaborate with others to generate new ideas		
	D) Evaluate and select the best option for action		
52	What is the purpose of defining the design challenge?		
	A)To evaluate and select the best solution B) To identify and understand the problem to be solved		
	C) To implement the chosen solution D) To monitor and adjust the solution		
53	What is the first step in defining the design challenge?		
	A) Conduct research to gather information B) Define the problem statement		
	C) Brainstorm potential solutions D) Evaluate and select the best solution		
54	What is the role of empathy in defining the design challenge?		
	A) To monitor and adjust the solution B)To evaluate and select the best solution		
	C) To implement the chosen solutionD) To understand the needs, desires, and perspectives of those affected by the problem		

55	What is the role of creativity in defining the design challenge?		
	A) To generate innovative and unconventional ideas for addressing the problem		
	B) To evaluate and select the best solution		
	C) To implement the chosen solution D) To monitor and adjust the solution		
56	What can be included in a mind map design?		
	A) TextB) ImagesC) Links and notesD) All of these		
57	What is the first step in the design thinking approach for maintaining relevance?		
	A) Implement the chosen strategy B) Develop a strategy for responding to market trends		
	C) Identify the current market trends D) Monitor and adjust the strategy		
58	What is the benefit of using the design thinking approach for maintaining relevance?		
	A) Improved competitiveness and market positioning B) Increased customer satisfaction		
	C) Improved financial performance D) All of the above		
59	What is the primary goal of the design thinking approach for redefining value?		
	A) To create new value for customers through innovative products or services		
	B) To reduce costs and improve efficiency		
	C) To increase profits D) To maintain relevance in the market		
60	What is the first step in the design thinking approach for redefining value?		
	A) Implementing the chosen strategy B) Developing a strategy for creating value		
	C) Identifying customer needs and preferences D) Monitoring and adjusting the strategy		
61	What is the role of empathy in the design thinking approach for redefining value?		
	A) To gain a deep understanding of customer needs and pain points		
	B) To evaluate and select the best strategy		
()	C) To implement the chosen strategy D) To monitor and adjust the strategy		
62	What is the role of prototyping in the design thinking approach for redefining value?		
	A) To evaluate and select the best strategy B) To test and refine new product or service concepts		
()	C) To implement the chosen strategy D) To monitor and adjust the strategy		
63	What is the role of risk-taking in the design thinking approach for redefining value?		
	A) To embrace uncertainty and take bold steps to create new value for customers		
	B) To evaluate and select the best strategy		
61	C) To implement the chosen strategyD) To monitor and adjust the strategyWhat is the benefit of using the design thinking approach for redefining value?		
64			
	A) Increased customer satisfaction and loyaltyB) Improved financial performanceD) All of the above		
65	What is the primary goal of the design thinking approach for addressing extreme competition?		
05	A) To create a unique value proposition for customers		
	B) To reduce costs and improve efficiency		
	C) To increase profits D) To maintain relevance in the market		
66	What is the first step in the design thinking approach for addressing extreme competition?		
00	A) Implementing the chosen strategy B) Developing a strategy for differentiation		
	C) Identifying customer needs and preferencesD) Monitoring and adjusting the strategy		
67	What is the benefit of using the design thinking approach for addressing extreme competition?		
01	A) Increased customer satisfaction and loyalty B) Improved financial performance		
	C) Improved competitiveness in the market D) All of the above		
68	What is the primary goal of the design thinking approach for addressing standardization?		
	A) To create a unique value proposition for customers		
	B) To streamline processes and improve efficiency		
	C) To increase profits D) To maintain relevance in the market		
69	What is the first step in the design thinking approach for addressing standardization?		
	A) Identifying process inefficiencies and areas for improvement		
	B) Developing a strategy for standardization		
	C) Implementing the chosen strategy D) Monitoring and adjusting the strategy		

70	What is the role of prototyping in the design thinking		
	· · · · · · · · · · · · · · · · · · ·	test and refine new standardized processes	
		o monitor and adjust the strategy	
71	What is the benefit of using the design thinking appro		
	A) Improved customer satisfaction and loyalty	B) Improved efficiency and cost savings	
	C) Improved competitiveness in the market	D) All of the above	
72	What is the goal of experience design?		
	A) To create functional products or services		
	B) To create enjoyable and meaningful experiences for	or users	
	C) To increase profits	D) To maintain relevance in the market	
73	What is the role of empathy in experience design?		
	A) To gain a deep understanding of customer needs as	nd preferences	
	B) To understand the experiences and perspectives of	the users	
	C) To create a functional product or service	D) To increase profits	
74	What is the role of experimentation in experience des	, 1	
	A) To test and validate new ideas for creating user ex	-	
	B) To evaluate and select the best design		
	C) To implement the chosen design	D) To monitor and adjust the design	
75	What is the role of iteration in experience design?	, , ,	
	A)To implement the chosen design	B) To evaluate and select the best design	
	C) To continuously refine and improve the user exper	· •	
76	What is the role of storytelling in experience design?	, ,	
	A) To create a narrative that connects the user to the p	product or service	
	B) To evaluate and select the best design		
	C) To implement the chosen design	D) To monitor and adjust the design	
77	What is the benefit of using the experience design app		
	A) Improved customer satisfaction and loyalty	B) Improved product or service functionality	
	C) Improved brand recognition and loyalty	D) All of the above	
78	What is the role of user research in experience design	?	
	A) To gain insights into the needs, behaviours, and pr	eferences of the users	
	B) To evaluate and select the best design		
	C) To implement the chosen design	D) To monitor and adjust the design	
79	What is humanization in design?		
	A) The process of designing products or services that prioritize the needs and well-being of people		
B) The process of designing products or services that prioritize profitability			
	C) The process of designing products or services that	prioritize efficiency and functionality	
	D) The process of designing products or services that	prioritize technology	
80	What is the benefit of using the humanized design app	proach?	
	A) Improved customer satisfaction and loyalty	B) Improved product or service functionality	
	C) Improved brand recognition and loyalty	D) All of the above	
81	What is the role of user research in humanized design	?	
	A) To gain insights into the needs, behaviours, and we	ell-being of people B) To maximize profits	
	C) To prioritize efficiency and functionality	D) To prioritize technology	
82	Why is a creative culture important for a business?		
	A) It attracts and retains top talent	B) It leads to improved customer experiences	
	C) It promotes new ideas and solutions	D) All of the above	
83	How does a creative culture impact employee satisfac	tion and motivation?	
	A) Leads to increased job satisfaction and motivation		
	B) It leads to decreased job satisfaction and motivation	on	
	C) It has no impact on employee satisfaction and mot	ivation	
	D) It depends on the individual and the situation		

84	What is a key ingredient	for a successful creative of	culture?)	
	A) Clear communication	and expectations		B) Coll	aboration and teamwork
	C) Encouragement and r	ecognition of employee co	ontribu	tions D) All	of the above
85					
	A) To validate the final p				ibility of the design idea
	\vec{C} To develop the final				ign idea in the market
86	, 1	ant aspect of rapid prototy	ping?	,	2
				f production	D) Attention to detail
	/ I	prototype	00000	- production	2)
87	What is the primary bene				
07	A) Low cost solution	in of tapta prototyping.		B) Ouick f	eedback on design ideas
	C) Efficient use of resou	rces			curacy of results
88	<i>,</i>	s NOT a common tool use	ed in ra	, -	curuey of results
00			User to		frequency identification
89		reating multiple prototype			requency rechtmeation
07	A) To evaluate multiple			reduce the cost of	development
	C) To speed up the desig	e		improve the final	
90		ing help in the design thir			product quality
90	A) By providing quick f	eedback on design ideas	iking p	B) By reducing th	a time to market
	C) By improving the acc			D) All of the abo	
01			a aamlar		
91		are typically created in the	e earry	B) High-fidelity p	
	A) Functional prototypes			D)Aesthetic prote	
92	C) Low-fidelity prototyp		a latan (/ I	7
92		are typically created in the	e later s		
	A)Low-fidelity prototypesB) High-fidelity prototypes				
93	C) Functional prototypes		lafara	D) Aesthetic prot	
95		s NOT a common method			
	A) Paper prototyping			B) Physical proto	
04	C) Virtual prototyping	vairaa Madal daai an?		D) Cybernetic pro	biotyping
94	What is the purpose of B			D) To ontinuing o	
	A) To create a unique va		~ 7		perations and processes
05		st profitable pricing strateg		D) All of the abo	ive
95	• •	nents of a business model		<u>C1 1 .</u>	\mathbf{D}) All of the set
0(, I	B) Customer Segments	C) (Channels	D) All of these
96	How is a design thinking	_	D)	A 1 1	
	A) As a lecture or preser				eriential learning session
07	C) As a discussion or del			As a networking ev	
97					ucts and services in the
	health care industry?				
	A) Apple	B) Google	C) Id	lea	D) Philips
98	Which company uses des	sign thinking to focus on t	the cust	omer experience a	nd design products that
	are easy to use and aesth			·····	
	A) IBM	B) Nike	\mathbf{C} M	icrosoft	D) Apple
00	,	,	,		D) Apple
99	· ·	n for using design thinkin	ig to cre	eate innovative pro-	ducts and services in the
	financial industry?				
100	A) JP Morgan chase	B) Goldman Sachs		ells Fargo	D) Bank of America
100		gn thinking to create inno	vative	products and servic	es in the automotive
	industry?				
	A) Toyota	B) Ford	C) Ge	eneral motors	D) Volkswagen
	-				-

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