CBCS SCHEME

BIDTK158/BIDTK258/22BD16

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Question Paper Version: D

First/Second Semester B.E./B.Tech./B.Des. Degree Examination,Dec.2023/Jan.2024 Innovation and Design Thinking

Time: 1 hrs.]

[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. Which process is a quick and inexpensive learning test to collect market driven data?
 - a) Learning launches

b) Prototyping

c) Customer co-creation

- d) None of these
- 2. What is an example of a method for conducting user research?
 - a) Surveys

b) Usability testing

c) Design sprints

- d) All of these
- 3. What is the process of collecting and analyzing data on how users interact with a design in real time called?
 - a) Real Time design interaction capture
 - b) Real Time design analysis
 - c) Real Time design interaction analysis
 - d) Real Time design interaction capture and analysis
- 4. What is the main goal of enabling efficient collaboration in digital space?
 - a) To create a digital environment where team members can easily share ideas, provide feedback and work together on projects in real time.
 - b) To develop a project management software for team members
 - c) To train team members on how to use design collaboration software
 - d) To implement video conferencing tools for remote team members
- 5. What is the purpose of user testing?
 - a) To gather feedback and identify areas for improvement in a product or service
 - b) To create a user-centered design
 - c) To create empathy map
 - d) To conduct user research

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6.	Which one of the following is not a part of various business process model steps? a) Process maps b) Process detection d) Process termination
7.	An employer Mrs. ABC divides her business processes into basic components based on their functions and performance for the business is called: a) Building Product Management b) Business Process Modelling d) Basic Product Management
8.	What is the main focus of design thinking in IT? a) Efficiency b) Cost effectiveness c) User-centeredness d) Innovation
9.	Which stage in Design Thinking Process allows for the collaboration between designers, developers and stakeholders? a) Empathize c) Ideate b) Define d) Test
10.	Which one of the following are advantages of Business Process Modeling? a) Align operations with business strategy b) Improves process communication c) Improves operational efficiencies d) All of these
11.	Duration of design thinking workshop can be a) 2 hrs b) 2 days c) one week d) Depends on the context of the workshop
12.	Which one of the following are part of the scope of strategic innovation? a) Managed innovation process b) Strategic Alignment c) Industries foresight and implementation d) All of these
13.	'The willingness to try something by building, it is the evidence of experimentation'. The statement refers to a) Story telling b) Prototyping c) Mind mapping d) Conceptualizing
14.	 How does experience design relate to humanization in product development? a) Experience design focuses on creating a positive user experience while, humanization focuses on making products more user friendly. b) Experience design and humanization are unrelated. c) Experience design and humanization focuses on creating a positive user experience d) None of these

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15. Which one is not part of planning stage of design thinking workshop?

a) Learning goals

b) Pre-meeting

c) Developing flow of activity

d) Idea testing

16. innovation happens when a new technology completely disrupts existing business or economy and creates a new business model.

a) Incremental

b) Sustaining

c) Disruptive

d) Radical

Which of the following is not consideration while representing the story of the product?

a) The central idea of the product

b) Engaging the participants

c) Other products in market

d) Incorporate adequate detail

18. A company collects, analyses and rework by considering negative feedback to learn and improve to create a solution that is

a) Desirable to customer

b) Feasible to implement

e) Viable for long term success

√ d All of these

19. What step of the design process was not considered for this tea pot?



a) Research and Design

b) Prototype and Testing

c) Design and Manufacturing

d) All of these

20. Mr. XYZ is starting a clothing company. Instead of making clothing that fits models, he wants to start thinking about what non models/common people/end users need and plan his design around them. Accordingly, he is engaging in

^Ja) Design thinking

b) Model design

c) End user generation

d) Model thinking

21. How can Design Thinking in IT improve product services and processes?

a) By identifying user needs and pain points

b) By considering different perspectives

c) By rapid prototyping and testing

d) All of these

Which one of the following is part of Agile Virtual collaboration approach?

a) Allow openness

b) Establish a culture of continuous communication

c) Develop a culture of courage and flexibility

d) All of these

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23.	What is the main benefit of using a design? a) Efficiency c) Improved user satisfaction	b) Cost-effectiveness d) Innovation
24.	Business process modeling replaced the org a) Time and motion study c) a and b	d) None of these
25.	Which method can be used to design comp structural and behavioural models? a) Scenario based prototype c) Simple prototype	blex software programs based on models, both b) Agile discussion d) None of these
26.	main project into many smaller projects a	industry, the software developers divide the nd adopt an iterative approach to incorporate er feedback. This type of approach is found in b) Waterfall method d) All of these
27.	A time boxed iteration of continuous deve that has to be completed by the team and m a) Prototyping c) Experience Design	lopment cycle for a planned amount of work ade ready for review is called b) Sprint d) Business Model Design
28.	Which one is the process of setting goals, company or organization more competitive a) Visualization c) Group discussion	procedures and objectives in order to make a ? b) Strategic management d) Prototype
29.	Which one of the following is not part of ar a) Disruptive c) Conceptual	b) Radical d) Architectural
30.	Which innovation type is related to new onew value to the existing market and also ca) Incremental c) Disruptive	concept, product or service which will create reate a completely new market? b) Sustaining d) Radical
31.	Design thinker in an organization are a) People c) Managers	b) Employees d) All of these
32.	What is the main objective of the empathize a) Understanding the problem cyldentifying the user needs	e stage in design thinking? b) Generating ideas d) Building prototypes
/33.	Mind mapping diagram provides information a) Customer and product interaction b) Idea and its interaction among other idea c) Visualization of problem statement d) None of these	

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	Value chain analysis process provide a) Better understanding of customer (b) Uncover the information about par c) Better market analysis d) All of these	expectations	
35.	Which one of the below helps in a opportunities? a) Prototype c) Ideate	generating hypothesis about potential new business b) Rapid concept development d) Learning launches	
36.	a) Images of various types of bulbs r b) Its application suitability to the cu	produced by the company	5
37.	The goal of the prototype phase is a) To understand what component of them b) To understand what component of them d) None of them	of your idea didn't work of your idea worked design details and terms to develop new busines	SS
38	opportunities.		
	a) Visualizationc) Rapid concept development	b) Journey mapping d) None of these	
39	a) Value chain analysisc) Prototype	heck of assumptions of the new business ideas? b) Rapid concept development d) Assumption testing	
40	i. Identify the process that brings us goal.a) Problem statement formulationc) Value chain analysis	sers and designers together to work towards a shared by Customer co-creation d) None of these	red
4	 The stages of the design thinking p a) Understand > Draw > Ideate > 0 b) Empathize > Define > Ideate > 1 c) Empathize > Design > Impleme d) Understand > Define > Ideate > 1 	Crate > Test Prototype > Test ent > Produce > Test	
4	a) Relationshipc) Communication	esign thinking does not include b) Collaboration d) Suppliers	
2	Design Thinking typically help ina) Innovationc) Marketing Management	b) Data Analysis d) Operation Management	

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44.	Mr. ABC wants to design a new bed that he can sell to nursing homes to use with their patients. However, Mr. ABC doesn't want anything to do with older adults or people with disabilities. According to the design thinking process, Mr. ABC will face problems because he is missing.				
	a) Empathy	b) Creativity	c) Practicality	d) Imagination	
45.	The three I's of designal Interest	gn thinking do not inclu b) Implementation	nde c) Inspiration	d) Ideation	
46.	In design, where do from? a) The design stage c) The define stage	es the information use	b) The ideate stage d) The testing stage	oblem statement come	
47.	Collecting design. a) Pictures	is an important portion b) Money	on of testing a prototy	pe in the test stage of d) E mails	
48.	A pototype is a simp a) Test ideas c) Both	ole experimental model	of a proposed solution b) Validate ideas d) None of these	used to	
49.	 Identify the correct statement a) To derive the power of design thinking, individuals, teams and organizations must have a leap of faith about the existence of a solution. b) Leap of faith is the page in the manual of design thinking containing the core philosophy about design thinking c) Design thinking presupposes that some people are inherently creative and become successful in creative product development. The team should have atleast one such person. d) None of these 				
50.	Which is not basic ra) Analytical	modes of thinking? b) Judical	c) Critical	d) Synthetic	
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