d) None of these

| EDTK158/258/22 | BD | 16 |
|----------------|----|----|
|----------------|----|----|

| USN | 10 | e | R | 0 | 9 | 0 | Ô | 0 | ò | 0 |
|-----|----|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

Question Paper Version: A

First/Second Semester B.E./B.Tech/B.Design Degree Examination, Dec.2024/Jan.2025

Innovation and Design Thinking

Time: 1 hr.]

[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. Design thinking is a process of
 - a) Thinking about design
 - b) Designing ways in which people think
 - c) Asking users to solve problems
 - Defining framing and solving problems from user's prospective.
- 2. Design thinking typically helps in Innovation
 - c) Financial planning

- b) Data analytics
- d) Operation efficiency
- 3. Design thinking principle DO NOT include
 - a) Feasibility
- b) Viability
- c) Desirability

- 4. Design thinker in an organization are
 - a) People
- b) Employees
- c) Managers

- 5. What are the steps of Design thinking process?
 - a) Understand > Draw > Ideate > Create > Test
 - Empathize > Define > Ideate > Prototype > Test c) Empathize > Design > Implement > Produce > Test
 - d) Understand > Define > Ideate > Produce > Try

a) It jelies on risk - taking d) It eliminates mistakes t accelerates effectiveness Tools of Design thinking are b) Experience mapping

7. Which of these is a reason that companies might Implement design thinking?

- a) Visualization
 - c) Rapid concept development

Design thinking is a linear process

a) True

9. Collaboration in design thinking for strategic innovation includes Collaboration with all the members of the organization for shared solution for

b) It creates more problem

- complex problem. b) Collaboration with design thinking team
- c) Collaboration with design thinking consultant
- d) Collaboration with operation team
- 10. What does MVP stand for a) Most viable product
 - c) Minimum viable product
- 11. Journey Mapping is a a) Geographic research
 - c) Both (a) & (b)

- b) Maximum viable product d) None of these

c) Cannot say

d) All of these

- d) None of these
- 12. Which of the following are NOT tools of Design thinking?
 - a) Co creation Online Marketing

- b) Prototyping
- d) Mind Mapping
- is a way of collaboration where in participants, regardless of their location, work together to reach a certain goal
 - a) Distributed work
- Distributed collaboration d) All of these
- c) Multiple perspective
- 14. A Rapid concept Development can be used before the progress of
- b) 50%
- 15. Mind Maps are used to a) Generate b) Visualize
- 16. Brain storming session is a) There is no rule, it is UP to the brainstorming facilitator to decide
 - A mix of individual and collective activities
 - c) A collective activity only
 - d) An individual activity only
- 17. Preparing and representing project information in the form of stories, maps and images
 - a) lourney mapping

c) Value chain analysis

BIDTK158/258/22BD16

| 18. What is way to narrow down the thoughts to reach at the final solution? Convergent thinking b) Divergent thinking c) Linear thinking d) All of these | whole organization simultaneously? a) Immersed approach c) Plunge approach d) Instant approach d) Instant approach |
|--|--|
| 19. To Empathize in design thinking means a To understand the user b) To have sympathy d) To understand the Technology 20 is used with the objective of identifying the needs of the customers which the customers themselves are unable to articulate. d) Mind mapping c) Story telling d) Rapid concept development 21. The three "I"s of design thinking DO NOT includes interest b) Implementation c) Inspiration d) Ideation 22. What is the characteristic for the location of a virtual team? | 31. "Products are shaped by stories that people tell about them". The phrase indicates the importance of |
| a) In the same building c) In the same industry d) In the same country | c) To develop new business opportunities d) To test prototypes of proposed solutions |
| 23. Design thinking follows a) Waterfall Model Both of these 24. Collaborative team work is essential in design thinking for a) Equal importance to all members c) Unbiased selection of ideas 25. BPM stands for a) Building Product Management Business Process Management Business Process Management b) Business Product Management d) Basic Product Management d) Basic Product Management c) is an iterative and incremental method of managing development and design b) Waterfall Model c) Cyclic Methodology d) All of these 27. Which of the following sequences is correct for Waterfall Methodology? Define – Design – Develop – Test – Deploy c) Define – Design – Develop – Test – Deploy c) Define – Design – Develop – Test – Deploy d) Design – Define – Develop – Test – Deploy | 34. A model of a proposed solution looks as close as possible to the final design is prototype at High fidelity b) Low fidelity c) No fidelity d) MVP 35. Which tool is used to represent how ideas are linked to main idea? a) Visualization b) Journey mapping d) Rapid concept development Yearton 36. What is the core belief behind co-reaction? 1 The presence of users is essential to the creative process b) Rapid development of new business ideas c) Testing assumptions about a new business idea d) Visualizing ideas and organizing them 37. What is the purpose of learning launches? a) To test prototype of proposed solutions To explore the fundamental assumptions of market potential for new growth c) To analyze the value chain of an organization d) To create a visual representation of a business idea 38. What is Business Process Modelling? |
| 28. Representation of prototypes by a) Story board b) Scenarios c) Screen shots All of these 29. Scope of Strategic Innovation a) Managed Innovation c) Industry Foresight b) Strategic Alignment d) All of these | a) A way of visualization business strategies b) A method for quality management c) A method for time and motion study A way of dividing business processes into basic components and functions 39. Frank Robinson defined and coined the term a) Design thinking b) Mind mapping MVP d) Hypothesis |
| | Ver -A - 4 of 5 |

BIDTK158/258/22BD16

| | N |
|--|---|
| | - 27 |
| . Experience economy has resulted in | b) Passive consumption |
| Active participation | |
| c) Minimum consumption | d) None of these |
| | 1 30 |
| 1. Outsourcing of innovation globally is more | likely where: |
| Innovations are autonomous | a voj mnovacions da v |
| a) Innovations are systematic or autonomo | us |
| d) Innovations are made by service sector | firms |
| | |
| 42. Which of the below firm is associated the | most with design thinking? d) Ikei |
| arkea b) Ideo | c) Idea d) Ikei |
| V 2003 | |
| 43. Design thickness create low fidelity proto | types to |
| a) Validate concepts for the market | b) Build production ready products |
| | 9.3 |
| Test concepts quickly and cheapty wi | th potential users |
| 44. Extension of a successful brand or iterat | Quetaining, |
| 44 Extension of a successful brand or iterati | ion a current period is inneration |
| | d) Evolutionary Innovation |
| c) Incremental Innovation | d) Evolutionary Innovation |
| 79. | |
| 45. Benefits of Agile in virtual collaboration | b) Rhythm building |
| a) Allow openers | d) All of these |
| Wignalize the whole thing | |
| 0 M 1 | most vital in framing design thinking as a core |
| 46. Which famous design school become | most vita, in a |
| subject | b) Business School, Ahmadabad |
| a) Trinity College | Standford d. school |
| c) Massachusetts University | |
| 47. The word design thinking is defined b | y Peter Rowes d) Balter Moore |
| 1 im Brown b) Rober Mck | c) Peter Rowes d) Balter Moore |
| | |
| 48. David is testing his prototype, what sl | hould his next move be: |
| | |
| | |
| Collect feedback from the testors | o evaluate his idea |
| d) Change his problem statement | |
| -inne des | ign would be the design strategy full under? Experience strategy |
| 49. What element of user experience des | Experience strategy |
| a) Interaction design | d) Information architecture |
| c) User Research | |
| 50. What purpose does point of view (PC | OV) serve in design thinking? |
| | |
| | |
| | |
| d) It is used in the testing phase for the design te | am is brain storming. |
| of provides rocus for the design | |
| | **** |

Ver - A - 5 of 5