



CBCS SCHEME

BIDTK158/258

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Question Paper Version : A

**First/Second Semester B.E./B.Tech. Degree Supplementary Examination,
June/July 2024**

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.

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1. One of the following steps is the correct sequence of phase of the design thinking process.
a) Ideate, Prototype, Define, Empathize and test
b) Empathize, Define, Ideate, Prototype and test
c) Test, Prototype, Define, Ideate and Empathize
d) None of these
 2. The following is the key element of the design thinking process,
a) Only human centered, creative and playful.
b) Only Iterative and collaborative
c) Only Prototype driven
d) All of these
 3. Design thinking methodology involves one of the following distinct stages,
a) Discover and Define
b) Define and Develop
c) Develop and Deliver
d) All of these
 4. Howard Business School Dean Mr. Shrikanth Datar leverage _____ stage frame work for design thinking.
a) One stage b) Two stage c) Four stage d) Three stage
 5. The elements of design thinking are shape, colour, space, form line, value and texture.
a) True b) False

17. The following any one is the essential elements of collaboration,
 - a) Co-operation and assertiveness
 - b) Autonomy, Responsibility and Accountability
 - c) Communication, Co-ordination, Natural trust and Respect
 - d) All of these
18. The one of the followings is the key of collaboration,
 - a) Dependable of people
 - b) Sharing vision
 - c) Voluntary
 - d) All of these
19. One of the below is not a type of collaboration working,
 - a) Mass collaboration
 - b) Team collaboration
 - c) Community collaboration
 - d) Network and Cloud collaboration
20. One of the followings is the principle of collaboration,
 - a) Trust and Empathy
 - b) Positivity and Clarity
 - c) Accountability
 - d) All of these
21. One of the following is the best principle of collaboration,
 - a) Only Relationship management
 - b) Only alignment on vision and values
 - c) Both collaborative leadership, Governance and Processes
 - d) All of these
22. One of the followings is the 4 steps of collaboration,
 - a) Forming, Norming, Storming and Performing
 - b) Fighting, Negligence, Strengthening and Personalizing
 - c) All of the these
 - d) None of these
23. One of the followings will not be included to build collaboration.
 - a) Pinpoint and Promote a purpose of collaboration
 - b) Lead by example and celebrate diverse personalities
 - c) To break the collaboration whenever required
 - d) Offer rewards or incentives for collaboration
24. One of the following is not the best example of collaboration
 - a) Brain storming
 - b) Group discussions
 - c) Prolonged time consumption
 - d) Reaching a consensus about processes or analyzing problems and finding a solution
25. The characteristics of collaboration are,
 - a) Strong leadership, clearly defined roles for subgroups
 - b) Effective and frequent communication
 - c) Periodic and temporary suppression of the ego
 - d) All of these
26. One of the following words will not describe collaboration :
 - a) Partnership and association
 - b) Unilateral, Sole
 - c) Co-operation, affiliation, connection
 - d) Relationship, Interaction and Alliances

27. The following is the way to develop collaboration,
 a) Communicate clearly and participate in team building activities
 b) Choose the right digital tool for the right task
 c) Go beyond your comfort zone and become a mentor
 d) All of these
28. One of the followings is the skill to improve collaboration,
 a) Communication, Respect diversity
 b) Open mindedness, knowledge sharing and debate
 c) Being organized and delegating tasks
 d) All of these
29. One of the followings is the advantages of collaboration,
 a) It brings people close together
 b) It opens up new channels for communication
 c) It boosts across a person's organization
 d) All of these
30. BPM in design thinking means,
 a) Best Practices in Modeling
 b) Business Process Modeling
 c) All of the these
 d) None of these
31. The phases of business process modeling are,
 a) Information gathering, Work flow modeling
 b) Implementation, Verification and Execution
 c) All of these
 d) None of these
32. The most important elements of design thinking are,
 a) Empathy, Expansive thinking and Experimentation
 b) Execution of work not in time and exemption from work
 c) All of these
 d) None of these
33. The types of product prototypes are,
 a) Feasibility prototypes
 b) Low fidelity user prototype
 c) High fidelity user prototypes and live data prototype
 d) All of these
34. The values of design thinking are,
 a) Core values of flexibility, collaboration
 b) Empathy, Curiosity and positivity
 c) All of these
 d) None of these
35. The various types of case studies are,
 a) Descriptive case study
 b) Explanatory case study
 c) Collective case study
 d) All of these
36. The phases of simulation process are,
 a) Pre modeling, model building
 b) Model runs, Experimentation and final thoughts
 c) All of these
 d) None of these

37. One of the followings is the type of virtual environment.
 a) Non-immersive
 b) Semi-immersive
 c) Fully-immersive
 d) All of these
38. The dimensions of collaboration in agile are,
 a) Collaborative work awareness
 b) Articulation and appropriation
 c) All of these
 d) None of these
39. One of the followings is the method of prototyping,
 a) Concept sketch, prototype, Bench model prototype
 b) Fully functional rapid prototype, virtual model prototype
 c) Pre-production alpha prototype, manufacture production prototype
 d) All of these
40. The D's of design thinking are,
 a) Discovery, Design
 b) Development, Delivery
 c) All of these
 d) None of these
41. The following one is the innovative strategies,
 a) Pro-active and Active
 b) Reactive and Passive
 c) All of these
 d) None of these
42. The strategies used in strategic thinking is,
 a) Articulate the goals clearly and analyze the possibilities and risks objectively
 b) Create an implementation plan, adopt and adjust along the way
 c) All of these
 d) None of these
43. The storey telling techniques is,
 a) The conflict
 b) The character
 c) The climax
 d) All of these
44. The elements of strategic management are,
 a) Arenas, Differentiators, Vehicles
 b) Stagine and Economic logic
 c) All of these
 d) None of these
45. The following are the design strategies,
 a) Collaboration
 b) User Centered design, system approach
 c) Iterative design
 d) All of these
46. The key components in strategic thinking are,
 a) Tools for analysis
 b) Vision and values
 c) Strategic purposes
 d) All of these
47. The critical aspects of sense making are,
 a) Phenomena
 b) Science and engineering practices
 c) Students ideas and science ideas
 d) All of these
48. The types of innovation are,
 a) Radiant
 b) Incremental
 c) Descriptive
 d) All of these

49. The 3C's of design are,
a) Consistency, Clarity and Content b) Complete, Complete and Close
c) All of these d) None of these
50. One of the followings is the teaching principles
a) Integrate new knowledge into the individuals life
b) Test it out in the real world
c) All of these
d) Only (a)

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