
	INDIAN SCHOOL AL WADI AL KABIR		
Class: IX	Department: SCIENCE 2025 – 26 SUBJECT: DESIGN THINKING & INNOVATION	Date of submission: 20.11.2025	
Worksheet No: 3 & 4 WITH ANSWERS	MODULE 3 & 4 Introduction to Observation, Problem Identification and Empathy, Design Project: with focus on Observation, Problem Identification, and Empathy Entrepreneurship Skills		Note: A4 FILE FORMAT
NAME OF THE STUDENT		CLASS & SEC: IX A TO I	ROLL NO.

MULTIPLE CHOICE QUESTIONS

1. Business is a (an) _____ activity.

- A) Social
- B) Economic
- C) Hazardous
- D) Selling

2. What is the aim of entrepreneurship?

- A) Earn a profit
- B) Solve customers' needs innovatively
- C) Both of the above
- D) None of the above

3. Documentation method where information is recorded in a story-like format, detailing events and observations, is known as:

- A) Narrative Charting
- B) Problem-Oriented Charting

- C) Charting by Exception
- D) Computerized Documentation

4. What is the full form of MLA format in documentation styles?

- A) Modern Literature Association
- B) Media Literacy Association
- C) Modern Language Association
- D) Manual of Literary Arts

5. _____ is a way of expressing gratitude to someone who has helped you with your research or project.

- A) Analyze
- B) Acknowledgement
- C) Empathize
- D) Reference

6. Which of the following methods of documentation focuses on specific problems?

- A) Charting by Exception
- B) Narrative Charting
- C) Problem-Oriented Charting
- D) Computerized Documentation

7. In _____ format the author appears first in the parenthetical citation, followed by the year and a page number.

- A) APA Format
- B) MLA Format
- C) SBAR Format
- D) CHICAGO Format

8. What is the importance of the Empathize phase in DTI?

- A) Trying creative alternatives
- B) Analyzing information
- C) Observation and study of problem space
- D) Seeking feedback

9. Why is 'Problem Identification' important in Design Thinking?

- A) It helps in developing technological solutions.
- B) It ensures that the team works on solving the right problem.
- C) It eliminates the need for testing prototypes.
- D) It helps in designing aesthetically pleasing products.

10. Which of the following is the fifth phase in DTI process?

- A) Ideate
- B) Analyze
- C) Reflect
- D) Build

11. Which of the following is not a method of design solution possibilities and ideation?

- A) Poster campaign to create awareness.
- B) An illustrated storybook.
- C) A simple card or board game to create awareness.
- D) Analyzing the data without creating awareness.

12. **Assertion (A):** A process/journey/time map provides a detailed visual representation of each step involved in a workflow.

Reason (R): By visualizing the flow of tasks, decision points and interactions you can quickly spot inefficiencies and areas of improvement.

- A) Both (A) and (R) are correct and (R) is the correct explanation of (A).
- B) Both (A) and (R) are correct but (R) is not the correct explanation of (A).
- C) (A) is correct but (R) is incorrect
- D) (A) is incorrect but (R) is correct

DESCRIPTIVE TYPE QUESTIONS

1. Define Entrepreneurship.
2. What are the qualities of a successful entrepreneur?
3. What are the key considerations when planning conversations with users?
4. Why is adding 'References' to a project report considered important?
5. List down the steps for preparing an acknowledgement.
6. What do you mean by a 'Mind Map' and a 'Questionnaire'?
7. Define Acknowledgement.
8. Explain presentation techniques with examples.

ANSWER KEY – MULTIPLE CHOICE QUESTIONS	
1	B) Economic
2	C) Both of the above
3	A) Narrative Charting
4	C) Modern Language Association
5	B) Acknowledgement
6	C) Problem-Oriented Charting
7	A) APA Format
8.	C) Observation and study of problem space
9	B) It ensures that the team works on solving the right problem
10	C) Reflect
11	D) Analyzing the data without creating awareness.
12	A) Both (A) and (R) are correct and (R) is the correct explanation of (A).

SOLUTIONS FOR DESCRIPTIVE TYPE QUESTIONS

1. The process of developing a business plan, launching and running a business using innovation to meet customer needs and to make a profit is entrepreneurship.
2. Patience
Positivity
Hardworking, Never Giving Up and Perseverance
Confidence
Open to Trial and Error
Creativity and Innovation
3. **Switch from parts to wholes (& back again)**
Identify parts that make up a whole and the connections between them.
See the layers – know where you are.
Divide conversations into layers to segment your thinking.
Think scale
Switch between zooming in to see the details and out to see the big picture.
Select based on criteria.
Prioritize and understand which parts and triggers are important in each situation.

Inject triggers into conversations.

A trigger is a detail (for example, a trend, technology, business model or outcome etc.) that can be injected to spark new ideas and speed up a conversation.

4. First, you want to provide references for sources that you have used in your writing because it is the ethical thing to do; it is not fair to use anyone else's words and/or ideas as if they were your own.

Second, by citing these sources, you are telling your audience that you have researched your topic, and you give the immediate impression of increased credibility.

5. **Introduction:** Start by expressing your general gratitude for the support you received.

Body: Mention specific individuals, teams, or organizations you wish to thank.

Conclusion: Summarize your gratitude or acknowledge any final individuals.

Keep it Concise: Write brief statements expressing your gratitude without unnecessary details.

Context Matters: Tailor your acknowledgment based on the context, whether it's for a project, thesis, or other formal documents.

6. A **mind map** is a visual tool used to represent information, ideas, or concepts in a hierarchical and interconnected way. It starts with a central idea or theme in the middle and branches out into related subtopics, concepts, or details.

A **questionnaire** is a written set of questions used to gather information, opinions, or feedback from a group of people. The questions can be open-ended (allowing respondents to answer in their own words) or closed-ended.

7. An acknowledgement of a reference is a way of expressing gratitude to someone who has helped you with your research or project.

It can be either a list or a more fluid paragraph, depending on your preference and style. You can write an acknowledgement of a reference by using a sentence starter, such as "I would like to thank" or "I am grateful to", followed by the name and title of the person or entity, followed by what you are thanking them.

8. Presentation techniques are the abilities and qualities necessary for creating and delivering a compelling presentation that effectively communicates information and ideas. They encompass what you say, how you structure it, and the materials you include to support what you say, such as slides, videos, or images.

Eg: A poster campaign to create awareness, an illustrated storybook on the subject to create awareness, a simple card or board game to create awareness.

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