

# Worksheet

Name: .....

Roll No: ..... Class: ..... Section: .....

Date: .....

## AI PROJECT CYCLE

## Chapter-2

### A. Answer the following questions in one or two words.

1. It is data on which we train our AI project model. ....
2. It is a diagrammatic representation of a set of things working together. ....
3. It is the graphical representation of data and information. ....
4. It is based on a set of rules and set of facts already fed to the machine to generate the desired output. ....
5. It is seen as the end of the Project cycle. ....
6. It is the starting node of the decision tree. ....

### B. Match the following.

- |                     |                                        |
|---------------------|----------------------------------------|
| 1. Data acquisition | a. First step of the AI Project Cycle  |
| 2. Evaluation       | b. Second step of the AI Project Cycle |
| 3. Problem scoping  | c. Third step of the AI Project Cycle  |
| 4. Data exploration | d. Fourth step of the AI Project Cycle |
| 5. Modelling        | e. Fifth step of the AI Project Cycle  |

### C. Long answer type questions.

1. What is data exploration? Explain some of the tools used for data exploration.
2. Explain all the stages of AI Project Cycle.
3. What is a system map? What are the rules for creating a system map?
4. Why do you think we need to explore and visualize data before jumping into the AI model?
5. What is the difference between rule-based approach and learning-based approach?
6. What is a decision tree? Explain in detail.