

# 1. AI Project Lifecycle



- A.** 1. c)            2. b)            3. b)            4. b)            5. b)
- B.** 1. Computer    2. Relationships            3. Secondary  
4. Test            5. Monitored
- C.** 1. T            2. T            3. F            4. T            5. T
- D.** 1. Primary    2. Secondary    3. Surveys    4. Model Evaluation  
5. Data Cleaning
- E.** 1. Artificial Intelligence systems are designed to mimic human cognitive processes. Just as humans observe, learn and make decisions, AI systems follow similar steps using data and algorithms.
2. AI in education helps personalise learning by adapting lessons to suit each student's needs. It can assist teachers with tasks like grading and provide instant feedback to students, making learning more efficient and engaging.
3. The following figure shows the six stages of the AI project cycle:
- Defining the Problem
  - Data Collection and Preparation
  - Model Development and Training
  - Model Evaluation and Refinement
  - Model Deployment
  - Monitoring and Maintenance
4. The 4W's approach: Who, What, Where and Why. This method helps define all important aspects of the problem and ensures alignment among stakeholders and team members.

5. Primary data is collected directly from the original source for a specific purpose. This type of data is fresh, raw, and highly accurate because it has not been processed or modified by anyone else. Common methods of primary data collection include: Surveys and interviews, Experiments and observations, IoT Sensors and smart devices, Marketing campaigns and feedback forms.

 **THINK & APPLY**  
Do it Yourself

