Assignment: 1   **Date of Submission:** 17/02/2023 (Friday)

Title: Fundamentals of Artificial   **Subject Name:** Introduction to Artificial Intelligence and Machine
Agent and Intelligent Agent   Learning

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1. Explain different definitions of Artificial Intelligence.
2. Write a short note on State of Art applications of Artificial Intelligence.
3. Explain all the 4 Dimensions of AI in detail.
4. Write a short note on Task Environment. Also Explain PEAS description.
5. Write a short note on Agents.

Multiple Choice Questions - MCQ
1. Who is known as the father of AI ?

   a. Fisher Ada   b. Alan Turing

   c. John McCarthy   d. Allen Newell

2. The application/applications of AI is/are

   a. Expert Systems   b. Gaming

   c. Vision System   d. All of the Above

3. If a robot is able to change its own trajectory as per the external conditions, then the robot is considered as the _____.

   a. Mobile   b. Non-Servo

   c. Open Loop   d. Intelligent

4. A Technique that was developed to determine whether a machine could or could not demonstrate the artificial intelligence known as the _____

   a. Boolean Algebra   b. Turing Test

   c. Logarithm   d. Algorithm

5. The component of an Expert system is _____.

   a. Knowledge Base   b. Inference Engine

   c. User Interface   d. All of the Above

6. An AI Agent perceives and acts upon the environment using _____.

   a. Sensors   b. Perceiver

   c. Actuators   d. Both a and c