Chapter-9

Artificial Intelligence

Section A: Fill in the Blanks

Natural Language Processing (NLP), John McCarthy, IBM's Deep Blue, Limited, Turing

1. The term "Artificial Intelligence" was coined by _____ in 1955.
2. _____ is an example of a reactive machine in AI.
3. Self-driving cars are an example of _____ memory AI systems.
4. The _____ test was proposed by Alan Turing to determine if a machine can exhibit intelligent behavior.
5. _____ is a subfield of AI that focuses on enabling machines to understand and interpret human language.

Section B: Match the Following

Type of AI	Description
1. Reactive Machines	A. AI systems that can understand human emotions and interact socially.
2. Limited Memory	B. AI systems that can only react to current scenarios without past memory.
3. Theory of Mind	C. AI systems that can store past experiences for a short period.
4. Self-aware AI	D. Hypothetical AI that can have its own emotions and desires.

Section D: True or False

1. AI systems can only perform tasks they are explicitly programmed to do. (True/False)
2. Deep Learning is a subfield of Machine Learning. (True/False)

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3. Self-aware AI systems already exist and are widely used. (True/False)
4. AI can be used to detect fraudulent transactions in banking. (True/False)
5. The first industrial robot, Unimate, was introduced in 1961. (True/False)

Multiple Choice Questions

1. Who is known as the father of AI?

   a) Alan Turing

   b) John McCarthy

   c) Marvin Minsky

   d) Arthur Samuel

2. Which of the following is an example of a reactive machine?

   a) Self-driving car

   b) IBM's Deep Blue

   c) Chatbot

   d) Facial recognition system

3. What is the main goal of AI?

   a) To replace human intelligence

   b) To augment human abilities

   c) To create machines that can feel emotions

   d) To eliminate the need for human labor

4. Which of the following is a subfield of AI that focuses on understanding human language?

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a) Computer Vision

b) Natural Language Processing

c) Machine Learning

d) Deep Learning

5. What is the primary characteristic of Limited Memory AI systems?

   a) They can store past experiences for a short period.

   b) They can understand human emotions.

   c) They can perform any intellectual task like a human.

   d) They can have their own beliefs and desires.

True or False

1. AI systems can learn from historical data. (True/False)
2. The Turing Test was proposed in 1950. (True/False)
3. AI is only used in the field of gaming. (True/False)
4. Deep Learning is inspired by the way the human brain filters information.

   (True/False)

5. AI ethics refers to the moral principles guiding the development and use of AI.

   (True/False)

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