PERIODIC TEST 2025-26

ARTIFICIAL INTELLIGENCE – MARKING SCHEME

Class : VIII   Duration : 1 Hrs
Date   : 07-07-2025   Max. Marks : 25
Admission No.:   Roll No.:

General Instructions:

Try to attempt all questions as per given order.

All questions are compulsory.

The Question Paper is divided into Three sections Section A to C.

- Section A has 11 questions and carry 1 mark each.
- Section B has 4 questions and carry 2 marks each.
- Section C has 2 questions and carry 2 and carry 3 marks each.

Section-A

Fill in the blanks: 1

1. Grouping customers with similar buying habits together is the example of _____.
Ans: Supervised learning

2. _____ algorithms can figure out how to perform important tasks by generalizing from examples.
Ans: Machine learning

3. _____ is a feedback-based machine learning technique in which an agent learns from environment.
Ans: Reniforcement learning

4. In unsupervised learning the model is handed an _____ dataset.
Ans: Unlabelled

5. _____ is defined as the moral principles governing the behaviour or actions of an individual or a group.
Ans: Ethics

6. _____ is caused in an AI system when a prediction or end outcome negatively impacts an individual's ability to establish their rightful identity.
Ans: Harm

7. Tay is an AI Chatter bot named "Tay" after the acronym_____.
Ans: Thinking about you

8. _____ are AI generated video or audio content with an intent to deceive.
Ans: Deep Fake

9. _____ can reinforce harmful stereotypes and put women, minorities and other social groups at risk.
Ans: Biased AI

10. _____ at a hospital in Philadelphia malfunctioned during prostate surgery.
Ans: Surgical robot

11. An Uber self-driving SUV struck and killed a _____ in Tempe, Arizona.
Ans: Female Pedestrian

SECTION - B

Short Questions : 2

1. What is Machine Learning?

Answer: Machine learning is a subset of artificial intelligence (AI) that involves the development of algorithms and statistical models that allow computer systems to learn and improve their performance on tasks without explicit programming. It relies on data to identify patterns, make predictions, and automate decision making processes.

2. What are some real-world applications of machine learning?

Answer:

Healthcare: Predicting diseases and outcomes, medical imaging analysis.
Finance: Fraud detection, risk assessment, stock market predictions.
E-commerce: Recommender systems, personalized marketing.
Natural Language Processing (NLP): Sentiment analysis, language translation.
Autonomous Vehicles: Object detection, route planning.

3. Give two examples where AI is being used for good.

Answer:

Human Rights : The Indian project Track Child uses the latest face recognition technology to compare photos from missing kids with photos from kids from orphanges.

Environment : Wildlife conservation involves counting animals, which is a difficult task. Motion sensitive cameras can automatically photograph wild animals, providing massive amounts of data.

Improving health information

Health care

Warning system to risk of disasters.

4. Which are the basic requirements that an AI program should fulfill?

Answer:

Be socially beneficial
Avoid creating or reinforcing unfair bias
Be built and tested for safety
Be accountable to people
Incorporate privacy design principles

SECTION – C

Long Questions:

1. Differentiate between AI Artificial Intelligence) and ML (Machine Learning)

Artificial Intelligence	Machine Learning
The goal is to simulate natural intelligence to solve complex problem	The goal is to learn from data on certain tasks to maximize the performance of the given task.
It leads to developing a system to mimic humans to respond in certain circumstances.	It involves creating self-learning algorithms.

2. Write any three AI Ethics.

(i) Be socially beneficial.

      (ii) Avoid creating or reinforcing unfair bias.

      (iii) Be built and tested for safety

      (iv) Be accountable to people.

      (v) Incorporate privacy design principles.

** ALL THE BEST ! **