4. The Domains of Artificial Intelligence

Worksheet

A. Choose the correct option:

1. Which of the following is not a domain of artificial intelligence?
   (a) Expert Systems (b) NLP
   (c) Blue Learning (d) Computer vision
2. Which of the following is not a type of machine learning model?
   (a) Supernatural learning (b) Unsupervised learning
   (c) Reinforced learning (d) Supervised learning
3. One of the areas where NLP is used
   (a) email filter. (b) futuristic text.
   (c) analog phone calls. (d) chemical reactions.
4. Object detection is a technique that comes under
   (a) Robotics. (b) Fuzzy logic.
   (c) Deep learning. (d) Computer vision.
5. _____ is an interdisciplinary domain that combines AI, fields overlap with electronics, computer science, artificial intelligence, mechatronics and others.
   (a) Expert systems (b) Robotics
   (c) Machine learning (d) Fuzzy logic
6. Which of the following not a type of expert systems?
   (a) Rule-based systems (b) Frame-based systems
   (c) Hybrid systems (d) Mind-based systems
7. Common sense of identifying an object difference and choose one is also a _____ reasoning.
   (a) logical (b) psychological
   (c) non-verbal (d) none of these
8. _____ is an artificial intelligence (AI) function that imitates the working of the human brain in processing data and creating patterns for use in decision-making.
   (a) NLP (b) Computer vision
   (c) Deep learning (d) Data learning
9. The domain that involves designing structures and systems that facilitate the representation and manipulation of knowledge is
   (a) knowledge representation and reasoning. (b) speech recognition.
   (c) machine reasoning. (d) reinforced learning.

10. This domain finds applications in fields like data analysis, automated planning, and cognitive assistants.

    (a) Machine reasoning
    (b) Computer vision
    (c) Reinforced learning
    (d) Speech recognition

B. Rewrite the statements correcting the mistakes in it.

1. Machine learning only involves supervised learning algorithms.
2. Computer vision is solely focused on image recognition.
3. Fuzzy logic is a vague and imprecise way of handling data.
4. Expert systems can replace human expertise entirely.
5. Robotics is limited to physical tasks and lacks cognitive capabilities.