Reg No:..... K24FY1433-B
Name :.....

First Semester FYUGP Computer Science Examination
November 2024 (2024 Admission onwards)
KU1DSCCSC106 (AI IN DAILY LIFE)
(EXAM DATE : 04-12-2024)

Time : 90 min Maximum Marks : 50

Part A (Answer any 6 questions. Each carries 2 marks)

1. Which are the main types of AI, and how do they differ? 2

2. Name a key milestone in AI history and explain its importance. 2

3. How does decision-making differ between AI and humans? 2

4. What is the role of Dimensionality reduction in unsupervised learning? 2

5. Describe how AI can improve the efficiency of treatment planning in healthcare. 2

6. What are the potential risks of widespread AI adoption for employment in industries like manufacturing? 2

7. Explain how AI biased systems can extend social inequalities. 2

8. What role does AI play in maintaining racial or gender inequality in decision-making processes? 2

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Part B (Answer any 4 questions. Each carries 6 marks)

9. Explain the scope of AI. 6

10. Evaluate the roles of creativity in AI versus human intelligence. 6

11. Explain the core concepts of reinforcement learning (RL), including agents, states, actions, rewards, and policies. How does reinforcement learning differ from supervised and unsupervised learning? 6

12. Discuss how AI is used across different industries, such as healthcare, finance, and education. 6

13. How can AI-driven technologies transform the employment sector? 6

14. How can AI be used to reduce social inequality? 6

Part C (Answer any 1 question(s). Each carries 14 marks)

15. (a) Explain how AI is transforming healthcare, particularly in diagnosis, treatment, and medical imaging. 7

    (b) Explain how AI can optimize traffic flow, reduce congestion, and improve safety. Additionally, describe the challenges associated with deploying such AI systems . 7

16. Explain machine learning and reinforcement learning. 14

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