K25FY4532 Pages: 2 Reg No:.....
Name:.....

First Semester FYUGP Degree (Reg/Sup) Examination
November 2025
KU1DSCCSC106 - AI IN DAILY LIFE

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Which are the main types of AI, and how do they differ?
2. Name a key milestone in AI history and explain its importance.
3. What are the implications of AI on wage inequality across different sectors?
4. How can AI-driven technologies lead to changes in the employment sector?
5. How is AI used in medical imaging for disease diagnosis? Provide an example.
6. How does AI contribute to safety improvements in autonomous vehicle systems?
7. What is the importance of training and testing datasets in machine learning?
8. What is overfitting in deep learning, and how can it be prevented?

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Discuss the role of AI in personalized treatment plans. How does AI analyze patient data to assist healthcare professionals in selecting the best treatment options? Provide examples of AI-based systems used for predictive healthcare.
10. Explain how AI is used in fraud detection in the financial sector.
11. How do autonomous vehicles use AI to navigate and make real-time decisions? Discuss the role of AI technologies such as computer vision, reinforcement learning in enabling autonomous driving.
12. Explain the concept of reinforcement learning, including its key components. Discuss its applications in various fields, such as education and business.
13. Discuss the challenges faced by AI systems in Natural Language Processing (NLP) and computer vision.
14. Describe how AI-powered chatbots are transforming customer service. Discuss how Natural Language Processing (NLP) is used to understand and respond to customer queries.

Section C

Answer any 1 questions. Each carry 14 marks.

15. (a) Explain the historical overview and scope of AI.

    (b) Explain the difference between human intelligence and artificial intelligence.

16. (a) Explain the different types of bias that can occur in AI systems, such as data bias, algorithmic bias, and user bias. Provide real-world examples to demonstrate how these biases impact decision-making in sectors like healthcare, finance, or law enforcement.

    (b) Analyze the impact of AI and automation on employment across various industries. Discuss both the positive and negative effects of AI on job creation, job displacement, and the transformation of job roles. Provide examples of industries where AI has led to significant workforce changes.

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