

QP Code: D133979		Total Pages: 1	Name:
		Register No.	
THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025			
(CUFYUGP)			
CSC3MN202 - INTRODUCTION TO ARTIFICIAL INTELLIGENCE			
2024 Admission onwards			
Maximum Time: 2 Hours		Maximum Marks: 70	
Section A			
All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)			
1	Define the term "AI problem."		
2	What is simulated annealing in AI?		
3	State the significance of game playing in AI research.		
4	Differentiate between brain and perceptron models.		
5	Write two limitations of single-layer perceptron.		
6	Mention two important functions of Pandas.		
7	Name two machine learning algorithms available in Scikit-learn.		
8	What is dimensionality reduction?		
9	Mention two differences between machine learning and deep learning.		
10	Mention any three AI applications in real life.		
Section B			
All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)			
11	Explain the role of search algorithms in problem-solving.		
12	Discuss knowledge representation techniques with suitable examples.		
13	Write short notes on machine learning as a problem-solving technique.		
14	Explain the architecture of a single-layer perceptron.		
15	Describe the plotting features of Matplotlib.		
16	Explain regression with a suitable example.		
17	Describe clustering and its applications in detail.		
18	Discuss the applications of reinforcement learning.		
Section C			
Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)			
19	Explain the evolution and domains of Artificial Intelligence.		
20	Discuss the differences between traditional machine learning and deep learning with suitable examples.		