

QP Code: D133784		Total Pages: 1	Name:
		Register No.	
<b>THIRD SEMESTER UG DEGREE EXAMINATION, NOVEMBER 2025</b>			
(CUFYUGP)			
<b>BCA3CJ204/ BCA3MN202 Foundations of Artificial Intelligence</b>			
<b>2024 Admission onwards</b>			
<b>Maximum Time :2 Hours</b>			<b>Maximum Marks :70</b>
<b>Section A</b>			
<b>All Question can be answered. Each Question carries 3 marks (Ceiling : 24 Marks)</b>			
1	List four subfields that contributed to AI.		
2	What is rationality in intelligent agents?		
3	Define a problem-solving agent.		
4	Give two examples each of toy problems and real-world problems.		
5	What is greedy best-first search?		
6	Write a short note on path consistency.		
7	Define ontology in AI.		
8	State the difference between syntax and semantics in logic.		
9	What is strong AI?		
10	Mention two applications of AI in finance and marketing.		
<b>Section B</b>			
<b>All Question can be answered. Each Question carries 6 marks (Ceiling : 36 Marks)</b>			
11	Write a short note on the history of AI.		
12	Explain the structure of agent programs with examples.		
13	Explain uniform-cost search with an example.		
14	Explain how AI is applied in the field of healthcare.		
15	Describe job-shop scheduling as a CSP example.		
16	Explain quantifiers in first-order logic with examples.		
17	Discuss how uncertainty is represented in AI.		
18	What are the risks if AI succeeds beyond human control?		
<b>Section C</b>			
<b>Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)</b>			
19	Explain the working of the A* search algorithm with an example.		
20	Explain the concept of an intelligent agent. Discuss the different types of agents with examples.		