

QP Code: D143676		Total Pages: 1	Name:
		Register No.	
FOURTH SEMESTER (CUFYUGP) DEGREE EXAMINATION, APRIL 2026			
COMPUTER APPLICATION			
BCA4CJ208 Automation and Robotics			
2024 Admission onwards			
Maximum Time :2 Hours		Maximum Marks :70	
<b>Section A</b>			
<b>All Questions can be answered. Each Question carries 3 marks (Ceiling: 24 Marks)</b>			
1	Define a production system.		
2	List the reasons for automating production systems.		
3	What are the basic elements of automation?		
4	What is safety monitoring in automation systems?		
5	Define continuous control system.		
6	What is computer process control?		
7	Define robot anatomy.		
8	What are end effectors in robotics?		
9	What is machine intelligence?		
10	What is flexible automation?		
<b>Section B</b>			
<b>All Questions can be answered. Each Question carries 6 marks (Ceiling: 36 Marks)</b>			
11	Explain facilities and manufacturing support systems in production systems.		
12	Describe automated manufacturing systems.		
13	Explain discrete control systems.		
14	Describe the capabilities of computer control in automation.		
15	Explain common robot configurations.		
16	Describe playback with point-to-point robot control.		
17	Explain the concept of programmable logic controllers (PLC).		
18	Explain the role of Artificial Intelligence in automated manufacturing.		
<b>Section C</b>			
<b>Answer any ONE. Each Question carries 10 marks (1x10=10 Marks)</b>			
19	Explain the levels of automation in production systems.		
20	Explain robotics in India and discuss the future of robotics.		