Name. _____	Printed Pages:01
Student Admn. No.: _____	

<table>
<tr><td colspan="2" align="center">School of Business
Backlog Examination, June 2023

[Programme: BBA(FIA)/B.Sc. HM/BHM/B.A.(H) Eco.] [Semester: 2]</td></tr>
<tr><td>Course Title: AI for Managers

Course Code: I210201</td><td>Max Marks: 100

Time: 3 Hrs.</td></tr>
</table>

Instructions:	1. *All questions are compulsory.*
	2. *Assume missing data suitably, if any.*

SECTION-A (15 Marks)   5 Marks each

1.	Define Machine Learning and its benefits.	K2	CO1	5
2.	Explain various applications of Artificial Intelligence.	K2	CO2	5
3.	Write short note on – Reinforcement Learning in AI.	K2	CO2	5

SECTION-B (40 Marks)   10 Marks each

4.	Discuss computer vision and its applications.	K2	CO1	10
5.	Explain First-Order Logic in Artificial Intelligence.	K4	CO2	10
6.	Illustrate the working of **PEAS** for AI agents.	K3	CO3	10
7.	Using suitable example, explain the working of Breadth First Search algorithm. **OR** Using suitable example, explain the working of Depth First Search algorithm.	K4	CO4	10

SECTION-C (45 Marks)   15 Marks each

8.	Explain in detail- supervised and unsupervised learning types of AI.	K3	CO3	15
9.	Using suitable examples, evaluate the importance of Probabilistic Reasoning Over Time in AI.	K5	CO4	15
10	Write down steps of A* algorithm in AI. Also take suitable example to evaluate the results of A* algorithm. **OR** **Given an initial state of an 8-puzzle problem and final state to be reached-** Initial State Final State Find the most cost-effective path to reach the final state from initial state using A* Algorithm.	K5	CO5	15