MCA.IV/05.15.0424

Reg. No.

M.C.A. DEGREE IV SEMESTER EXAMINATION MAY 2015

CAS 2402 ARTIFICIAL INTELLIGENCE

(Regular and Supplementary)

Time: 3 Hours

Maximum Marks: 50

 $(15 \times 2 = 30)$

 $(5 \times 4 = 20)$

PART A (Answer ALL questions)

1.	(a) (b)	Define a well defined problem.
	(c)	What are the properties of task environments?
Ш.	(a) (b) (c)	Write notes on hill climbing search.What is a heuristic function? Give an example.Define a game as a search problem.
III.	(a) (b) (c)	Write notes on knowledge based agent? What is a horn clause? Describe the knowledge engineering process.
IV.	(a) (b) (c)	Discuss the terms categories & objects. Write notes on the Ontology of Situational Calculus. Discuss on mental events and mental objects.
V.	(a) (b) (c)	What is the difference between supervised and unsupervised learning? What is Inductive Learning? What is Reinforcement Learning? PART B
VI. VII.		Describe the different Uninformed Search Strategies. OR Write note on the different types of Agents.
VIII. IX.		With an example, explain constraint satisfaction problem. OR What is Alpha-Beta Pruning?
Х.		Explain resolution in First Order Logic.
XI.		OR Explain prepositional logic and its syntax and semantics.
XII. XIII.		Explain planning and planning graphs. OR Write notes on Ontological Engineering.
XIV. XV.		With example, discuss learning using decision trees. OR What is ensemble learning?
AV.		what is ensemble rearming: