

$$2 + 2 = 4$$

SHAHEED BHAGAT SINGH STATE TECHNICAL CAMPUS, FEROZEPUR

ROLL No:

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Total number of pages:[1]

Total number of questions:06

2015 Balish Omwids

Re-appear

M.C.A. 5th Sem
ARTIFICIAL INTELLIGENCE
Subject Code: MCA-501
Paper ID: M/18

Time allowed: 3 Hrs

Max Marks:60

Important Instructions:

- All questions are compulsory
- Assume any missing data

PART A (2×10)

Q. 1. Short-Answer Questions:

All COs

- what is A* Algorithm
- What are Frames?
- Tower of Hanoi
- What is Formal Grammar?
- Who are communications Agents?
- what is Production System
- Why Heuristic Function is used?
- Write down an Algorithm of Best-First-Search.
- What do you mean by forward Chaining?
- Write Truth Table for Propositional Logic

PART B (8×5)

Q. 2. What is Artificial Intelligence? Write down its various Applications.

CO1

OR

Discuss various techniques of State Space Search in Problem Solving?

CO1

Q. 3. Write down difference between DFS & BFS.

CO2

OR

Explain Best First Search in detail.

CO2

Q. 4. What is reasoning? Discuss Propositional Logic & predicate logic.

CO3

OR

What is Knowledge Representation? Write down its Various Issues.

CO3

Q. 5. What do you mean by Expert System? Write down its Advantages.

CO4

OR

What is Natural processing Language? Also write down its Advantages & Disadvantages

CO4

Why Game Playing is used in Artificial Intelligence? Explain Minimax Tree.

Q. 6.

CO4

OR

Discuss the role of Grammar in AI.

CO2