3725

Artificial Intelligence
(New) (1220)

P. Pages : 2

Time : Three Hours   Max. Marks :100

Instructions to Candidates :
1. Do not write anything on question paper except Seat No.
2. Answer sheet should be written with blue ink only. Graph or diagram should be drawn with the same pen being used for writing paper or black HB pencil.
3. Students should note, no supplement will be provided.
4. Attempt **any two** question from each unit.
5. Figure to right indicate full marks.
6. Draw a diagram where necessary.
7. Assume suitable data if necessary.

UNIT - I

1.   Write Depth first search algorithm with Eg.   10

2.   Write and discuss production rules for water jug problem.   10

3.   Write short note on **any two.**   10

   a) Control strategies.

   b) Production systems.

   c) Heuristic search techniques.

UNIT - II

4.   Convert following into instance L is a relationship.   10
      i)   Ram eats an apple.
      ii)   God loves Ram
      iii) Ram is a Man
      iv)   Aurangzeb was a Ruler.
      v)   All Indians loyal to Aurangzeb or hated him.
      vi)   All pompeians were Romans.

| 5. | Explain script, component of script with eg. | 10 |
| 6. | Write Fuzzy logic, Fuzzy set. | 10 |

UNIT - III

7.	Describe in detail goal stock planning with eg.	10
8.	Discuss waltz algorithm with eg.	10
9.	What is Robot ? Components of Robot, describe its Architecture.	10

UNIT - IV

10.	Discuss Biological Model of Neuron.	10
11.	Discuss Natural language understanding.	10
12.	Write applications of Neural N/W.	10

UNIT - V

13.	Discuss Min Max search tree with diagram.	10
14.	What is Expert system, discuss its architecture.	10
15.	Describe Game Playing with reference of AI.	10

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