

Seat  
No.

--	--	--	--	--	--



मन - 064

## 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. Answersheet 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. Solve **any two** subquestion from each unit.
5. Assume suitable data if necessary.
6. Figures to the right indicate full marks.

### UNIT - I

1. a) What you mean by production system also describe various content of it. 10  
b) Write algorithm for Breadth first search with example. 10  
c) Describe the example of means ends analysis. 10

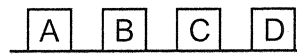
### UNIT - II

2. a) State and explain various primitives in conceptual dependency. 10  
b) Justify the role of knowledge in A. I. 10  
c) Describe unification algorithm with example. 10

### UNIT - III

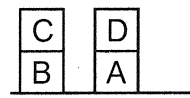
3. a) Justify the role of planning in A. I. 10  
b) Solve following block world problem using goal stack planning. 10

Initial state



Start

Goal state



Goal

- c) Draw and explain various Trihedral figures also labeled them. 10

#### UNIT - IV

4. a) Discuss various types of neural network learning methods. 10  
b) Draw and explain any one application of neural network. 10  
c) Justify the role of transition networks in natural language processing. 10

#### UNIT - V

5. a) Describe the architecture of Expert system. 10  
b) Write algorithm for MINIMAX procedure. 10  
c) Discuss various refinements in MINIMAX procedure. 10

\*\*\*\*\*