

BCA/D-18

## ARTIFICIAL INTELLIGENCE

BCA-353

1.(a)What is Intelligence?

(b)Name different component of Artificial Intelligence.

(c)What is expert system?

(d)What is rule based expert system?

(e)Define Depth First Search.

(f)What is Heuristic Search?

(g)NLP Stands for-----

(h)Local Maximum means-----

### UNIT-I

2.Explain the concept of Artificial Intelligence.

3.Discuss “Can a Machine Think?”

### UNIT-II

4.What are the different categories of an Expert system?Explain characteristics of an Expert System.

5.Discuss various steps of developing an Expert System.

### UNIT-III

6.Explain the following:

(a)Breadth first search

(b)Best first search

7.What is search process in AI?Explain with different types of search techniques.

### UNIT-IV

8.What is Robotics?Explain the concept of a robot along with its major components?

9.What is Natural Language Processing?What is its need?

What are the fundamental problems of Natural Language Processing?