

Roll No.

Total Pages : 2

46309

BT-6/M-24

EXPERT SYSTEMS

Paper : PC-CS-AIML-306A

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt five questions in all, selecting at least one question from each unit.

UNIT-I

1. (i) What is blind search? Why it is called blind search?
List various blind search strategies. 7
- (ii) Differentiate A algorithm and AO* algorithm. 8
2. (i) What is predicate logic? What are different ways
of representing predicate logics? 8
- (ii) Define frame. How Knowledge Representation is
presented using Frame? 7

UNIT-II

3. (i) Differentiate expert system and conventional
programs with example. 7
- (ii) How diagnosis and debugging activity is carried
out in expert system. 8

4. (i) Write short notes on acquisition module frame. 7
(ii) Differentiate forward and backward chaining. 8

UNIT-III

5. (i) Discuss different steps involved in building expert system. 7
(ii) Discuss various techniques knowledge representation in expert system. 8
6. (i) Write and explain various stages in development of expert system. 7
(ii) How the tools are selected for building expert system? List various tools used for building expert system. 8

UNIT-IV

7. (i) What are the common pitfalls that occur during the planning of an expert system? 7
(ii) What are the different problems that can occur during the different phases of the development of an expert system? 8
8. Write short notes on :
(i) MYCIN.
(ii) DENDRAL. $(2 \times 7\frac{1}{2} = 15)$