BT-7/D-23



P. T. O.

EXPERT SYSTEMS

Paper-PE-CS-D415A

Time Allowed : 3 Hours] [Maximum Marks : 75

Note : Attempt five questions in all, selecting at least one question from each Unit. All questions carry equal marks.

UNIT-I

- 1. (a) What is an Expert System? Explore its various components in detail. 7
 - (b) Elaborate rule-based architecture of an expert system.
 Also discuss its advantages.
- 2. (a) Write a note on the applications of Expert System.
 - (b) What are the types of problems handled by Expert System?

UNIT-II

- What are the different techniques of representing the knowledge in expert systems? Discuss. 15
- 4. Explain the following factors related with expert system:
 - (a) System Building Aids.
 - (b) Knowledge Engineering.

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UNIT-III

- 5. Discuss how expert system tools facilitate the development of expert systems and provide an overview of the tools commonly used in the creation of these systems. 15
 - 6. Explain the procedure of Building an Expert System in detail.

UNIT-IV

- 7. Discuss in detail the difficulties faced in interaction with Domain experts during expert system development. 15
- 8. Write a detailed note on common pitfalls in planning for expert system development. 15