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B.Tech. (IT) (Sem.-6) EXPERT SYSTEM Subject Code : IT-312 Paper ID : [A0524]

Time : 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- 3. SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

- l. Write briefly :
 - (a) Name various components of an expert system.
 - (b) What are the types of expert system?
 - (c) Name the types of problems solved by the existing expert systems.
 - (d) What are various knowledge acquisition techniques?
 - (e) What are Fuzzy Expert Systems?
 - (f) Name various expert system implementation tools.
 - (g) Why is it important that the Expert system is able to explain the why and how questions related to a problem solving session?
 - (h) What are the steps in the expert system development process?
 - (i) What are semantic nets?
 - (j) How the expert systems are different from the knowledge-based systems?

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SECTION-B

- 2. Consider a simple fully connected neural network containing three input nodes and single output node. The inputs of the network are eight possible binary patterns 000,001,...,111. Find weights w_i , for which the network can differentiate between the inputs by producing 3 distinct outputs.
- 3. Describe how appropriate reasoning is performed using Fuzzy sets.
- 4. Explain a simple model of expert system architecture with an expert system.
- 5. Discuss the expert system shell 'expertsys' in detail.
- 6. Explain sensor data capturing technique in detail.

SECTION-C

- 7. Discuss various learning, planning and exploration methods in Expert systems.
- 8. Discuss the working and features of RIERES and Mycin.
- 9. Explain various knowledge representation techniques.

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