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Roll No. ..... Total No. of Questions : 09]

[Total No. of Pages : 02

Maximum Marks : 60

## B. Tech. (Sem. - 6<sup>th</sup>) EXPERT SYSTEM <u>SUBJECT CODE</u> : IT - 312 (Elective - I) <u>Paper ID</u> : [A0524]

[Note : Please fill subject code and paper ID on OMR]

## Time : 03 Hours

Q1)

**Instruction to Candidates:** 

- 1) Section A is Compulsory.
- 2) Attempt any Four questions from Section B.
- 3) Attempt any Two questions from Section C.

#### Section - A

 $(10 \times 2 = 20)$ 

- a) What are the general features of an expert system?
- b) What is the role of knowledge engineer in expert system?
- c) Differentiate between knowledge based system and expert system.
- d) What do you understand by semantic nets?
- e) State the disadvantages of rule based expert systems.
- f) Differentiate between membership and activation functions.
- g) What is the need of planning in expert system?
- h) How does prolog deals with reasoning?
- i) Why knowledge acquisition is not so easy?
- j) Define fuzzy logic.

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*P.T.O.* 

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#### Section - B

 $(4 \times 5 = 20)$ 

- Q2) Explain the concept of Hierarchical planning with suitable example.
- Q3) Describe the structured knowledge representation techniques.
- Q4) What are the challenges and issues in designing of a good end user interface in an expert system? Explain with examples.
- **Q5)** Describe the following :
  - (a) Domain exploration.
  - (b) Meta-knowledge.
- **Q6)** What are the advantages and disadvantages of expert system shells? Explain.

#### Section - C

 $(2 \times 10 = 20)$ 

- Q7) Explain the following with reference to neural system :
  - (a) Structure of neural system.
  - (b) Its use in designing expert system.
- **Q8)** Give the technical details of any real time expert system with its architecture and its implementation.
- Q9) Describe the working of any two industrial and commercial expert systems.

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