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Roll No.

Total No. of Questions: 09]

Total No. of Pages: 02

## B.Tech. (Sem. - 6th) EXPERT SYSTEM

# SUBJECT CODE: IT - 312

Paper ID : [A0524]

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

Time: 03 Hours

Maximum Marks : 60

# Instruction to Candidates:

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

### Section - A

Q1)

 $(10 \times 2 = 20)$ 

- Give the list of methods of knowledge acquisition. a)
- What do you understand by expert system shell? b)
- What is the difference between a shell and a programming environment? c)
- Explain why backward chaining is considered goal-driven. d)
- What are the main domain exploration methods? e)
- List the phases in the expert system development life cycle.
- What do you mean by Knowledge Elicitation? g)
- Differentiate between structured and unstructured interviews. h)
- Write down any two problem faced during development of an Expert System.
- Define fuzzy logic. Why it is useful?

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#### Section - B

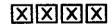
$$(4 \times 5 = 20)$$

- Q2) Write short note on MYCIN.
- Q3) Differentiate the following:
  - (a) Forward and Backward Chaining.
  - (b) Declarative knowledge and procedural knowledge.
- Q4) Explain Sensor Data Capturing techniques in detail.
- Q5) What are the main advantages in keeping the knowledge base? Separate from the control module in knowledge-based system?
- Q6) Discuss how reasoning is done using sematic nets. What are its limitations?

#### Section - C

$$(2\times10=20)$$

- Q7) Discuss ES development life cycle phases. Compare the ES development life cycle phases to the Simon four phase decision making model. How do the phases overlap?
- Q8) Write short note on the following:
  - (a) Fuzzy Expert System.
  - (b) Neural Expert System.
- **Q9)** Draw and explain decision tree architectures and black-board system Architectures.



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