

B.E. Sixth Semester (Computer Engineering) (CGS)
10272 : Elective-II : Expert Systems : 6 FEKE 05

P. Pages : 2

Time : Three Hours



AU - 2788

Max. Marks : 80

- Notes :
1. Answer **three** question from Section A and **three** question from Section B.
 2. Due credit will be given to neatness and adequate dimensions.
 3. Assume suitable data wherever necessary.
 4. Illustrate your answer necessary with the help of neat sketches.
 5. Use of pen Blue/Black ink/refill only for writing the answer book.

1. a) Write down detail case study on MYCIN. 7
b) What is artificial intelligence? Give the application in detail. 7

OR

2. a) What do you mean by expert system give the character and features of Expert system in detail. 7
b) What is heuristic programming. 7
3. a) What is knowledge representation. Give the types of knowledge representation along with example. 7
b) What is knowledge acquisition? Explain in detail with suitable example. 6

OR

4. a) What do you mean by rule based system. 6
b) Describe briefly. 7
1) OAV triplets. 2) Frames.
5. a) What is the source of uncertainty? Which are the approaches available to handle uncertainty. 7
b) What is role of inference engine. 6

OR

6. a) Explain briefly. 7
1) Forward chaining algorithm. 2) Backward chaining Algorithm.
- b) Explain Expert system modularity. 6

SECTION - B

7. a) Explain validation and justification of Expert system in detail. 7

- b) Explain performance verification in ES evolution in detail. 7

OR

8. a) Explain. 14
1) Conflicting Rules. 2) Redundant Rules.
3) Subsumed Rules. 4) IF clauses.

9. Explain Expert system Shell, E.S. environment and expert system Hardware in detail. 13

OR

10. a) Explain features of object oriented programming in accordance with expert system. 7

- b) How expert systems can be monitored and maintained? Explain. 6

11. a) Draw and explain expert system development flow diagram. 13

OR

12. a) What are Trends in Expert system. 6

- b) What is role of good knowledge Engineer. 7

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