

M.E. First Semester (Computer Sci. & Engg.) (F.T.) (CGS)
13144 : Expert System Design : 1 RMEF 4 / 3 RME 1

P. Pages : 2

Time : Three Hours



AU - 3225

Max. Marks : 80

- Notes :
1. Due credit will be given to neatness and adequate dimensions.
 2. Illustrate your answer necessary with the help of neat sketches.
 2. Use of pen Blue/Black ink/refill only for writing book.

SECTION – A

1. a) Explain the term Expert system? What are the different types of expert system in details. 7
- b) Explain STRIPS. What jobs are taken care of in STRIPS? 7

OR

2. a) State and Explain the A* algorithm. 7
- b) Compare MYCIN with STRIPS. 7
3. a) What are production rules? Explain with example. 7
- b) Explain Quillian's memory? 6

OR

4. a) Explain conflict resolution mechanism. 6
- b) Explain frame system for representing real world knowledge. 7
5. a) What is fuzzy logic? Why it is preferred than possibility theory for Expert system application? 7
- b) Explain the stages involved in knowledge acquisition to construct an Expert system. 6

OR

6. a) Explain primary source of uncertainty that may encountered in ES. 7
- b) Explain various sources of uncertainty. 6

SECTION – B

7. a) Explain heuristic matching in detail. 6
- b) Give different type of confidence factor in MORE. 7

OR

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|----|----|--|---|
| 8. | a) | Explain classification of Expert system tasks. | 7 |
| | b) | Explain classification versus construction. | 6 |
| 9. | a) | Explain the process involved in construction of INTERNIST. | 7 |
| | b) | What is a prototype in CENTAUR? | 6 |

OR

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|-----|----|--|---|
| 10. | a) | Give all the features of Rule based expert system shell. | 7 |
| | b) | Describe R1/XCON case study. | 6 |
| 11. | a) | Explain the difference between monotonic and non monotonic revisions. | 7 |
| | b) | Explain to what extent should the final system be based upon an initial prototype. | 7 |

OR

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|-----|----|--|---|
| 12. | a) | Compare and contrast the use of shells, high-level programming languages & multiple paradigm programming environment for both classification & construction tasks. | 7 |
| | b) | Give the various sources of evaluation & training. | 7 |

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