

22671

M. Tech. 3rd Semester (CSE) CBCS Scheme

Examination, December-2018

KNOWLEDGE BASED SYSTEM

Paper-16 CSE23C1

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt five questions in all, selecting one from each unit. Q. No. 1 is compulsory.

1. Write short note on following :

- (i) Propositional Logic
- (ii) Partitioned Nets
- (iii) BFS
- (iv) Fuzzy Logic 20

Unit-I

2. Describe in detail about Semantic Tableaux and Resolution in Predicate Logic. 20

3. Explain the following :

- (i) Logic Programming in Prolog
- (ii) FOPL. 20

Unit-II

4. Explain in detail about Architecture of Knowledge Based System. 20

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5. Explain the following :

- (i) Semantic Nets
- (ii) Thematic Role Frames. 20

Unit-III

6. Describe the following :

- (i) Iterative Deepening
- (ii) DFS 20

7. Give a complete description about Heuristic Search. 20

Unit-IV

8. Explain the following :

- (i) Uncertainty Management in Expert System
- (ii) Bayesian Theory 20

9. Define Agents. Explain their application in Intelligent System. 20