

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

22671-P-2-Q-9 (18)

[P.T.O.]

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