

23074

M.Tech 3rd Semester (Computer Engg.) Examination,
May-2017

KNOWLEDGE BASED SYSTEM DESIGN

Paper-MTCE-70A-A

Time allowed : 3 hours]

[Maximum marks : 100

Note : Attempt any five questions.

1. Explain the following : 20
 - (a) Propositional Logic
 - (b) Semantic Tableaux
 - (c) FOPL
2. Give a complete description about Architecture of knowledge based system. 20
3. Explain the following : 20
 - (a) Common Sense Reasoning
 - (b) Frame based system
4. Describe the following : 20
 - (a) Iterative Deepening Search algorithm.
 - (b) Various Hill Climbing Search Techniques.
5. Draw and explain the architecture of an expert system. Also explain its components and characteristics. 20

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6. Explain the following : 20
- (a) Partitioned Nets
 - (b) Semantic Nets
7. Explain the following : 20
- (a) Bayes Network
 - (b) Dempster Shafer Theory
 - (c) Bayesian Theory
8. Write short note on following : 20
- (a) Heuristic Search
 - (b) DFS
 - (c) Frames
 - (d) Agent