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**B. E. (Eighth Semester) Examination,
Nov.-Dec. 2018**

(New Scheme)

(ET & T Branch)

ARTIFICIAL INTELLIGENCE & EXPERT SYSTEMS

Time Allowed : Three hours

Maximum Marks : 80

Minimum Pass Marks : 28

*Note : Attempt any two parts from each question/unit.
All question carry equal mark i.e. 8 each.*

Unit-I

- 1. (a) What is an A-I technique? Explain characteristics of A-I applications. 8

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- (b) Explain the term forward and backward chaining. 8
- (c) Explain the difference between DFS and BFS with example. 8

Unit-II

- 2. (a) Explain hill climbing technique with an example. What are various drawbacks in hill climbing. 8
- (b) Explain A* algorithm and AO* algorithm with example of each. 8
- (c) Explain the term constraint satisfaction. Solve the following problem : 8

C R O S S	S E N D
<u>+ R O A D S</u>	<u>+ M O R E</u>
D A N G E R	M O N E Y

Unit-III

- 3. (a) Explain the term FOPL. 8
- (b) Explain the following terms : (any two) 8
 - (i) Skolemization

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(ii) Resolution

(iii) Unification

(c) Explain any 5 list manipulation functions in LISP. 8

Unit-IV

4. (a) Explain the term CFG? What is RTN? 8

(b) Explain the term ATN with example. 8

(c) Illustrate the component of planning systems. 8

Unit-V

5. (a) Explain the architecture of expert system. 8

(b) What are various types of learning. 8

(c) Write short notes on MYCIN. 8

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