

Subject : Artificial Intelligence and Applications

Day : Wednesday
Date : 07/12/2016



Time : 10.00 A.M. TO 1.00 P.M.
Max Marks : 80 Total Pages : 1

N.B.;

- 1) Attempt **ANY FIVE** questions from Section – **I.** and attempt **ANY TWO** questions from Section – **II.**
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SAME** answer book.

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- Q.1** Explain block diagram of Expert System. Give some applications. (10)
- Q.2** Explain propositional and predicate logic with example. (10)
- Q.3** Explain the following: (10)
- a) Partitioned semantic network
 - b) Conceptual dependency
- Q.4** What is heuristic search? Explain different heuristic search techniques. (10)
- Q.5** Explain different issues in knowledge representation. (10)
- Q.6** Explain water – jug problem in detail. (10)
- Q.7** Write short notes on **any TWO** of the following: (10)
- a) Fuzzy logic
 - b) MYCIN
 - c) DENDRAL

SECTION - II

- Q.8** Write prolog program to
- a) Sum of odd and even numbers between 1 to 100. (07)
 - b) To find whether given number is prime or not. (08)
- Q.9** Write a prolog program to
- a) Find roots of a quadratic equation. (07)
 - b) Find factorial of a number. (08)
- Q.10** Write short notes on **any THREE** of the following: (15)
- a) Application of neural network
 - b) Scripts
 - c) Natural language processing
 - d) Vision and speech
 - e) A. I languages

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