YENISI - V : SUMMER - 2016

Subject : Artificial Intelligence and Applications

| N.B.; | | | | |
|-------------|--|--|--------------|--|
| | 1) | Attempt ANY FIVE questions from Section – I . and attempt ANY TWO questions from Section – II . | | |
| | 2) 3) | Figures to the right indicate FULL marks. Answers to both the sections should be written in the SAME answer book. | | |
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| | | SECTION - I | | |
| Q.1 | | What is heuristic search? Explain different heuristic search techniques. | (10) | |
| Q.2 | | Explain Breadth first and Depth-first algorithm with example. | (10) | |
| Q.3 | | Describe probabilistic reasoning in handling uncertainty. | (10) | |
| Q.4 | | Give alpha – beta pruning algorithm with example. | (10) | |
| Q.5 | | What is expert system? Explain its architecture. | (10 | |
| Q.6 | | Explain knowledge representation by scripts. | (10) | |
| Q. 7 | | Write short notes on any TWO of the following: | (10) | |
| | a)b)c) | Natural Language Processing Fuzzy Logic Neural Network | | |
| | | SECTION - II | | |
| Q.8 | | Write a prolog program to | | |
| | a) b) | Sum of digits of a number Convert lower case character to upper case of vice versa. | (07) (08) | |
| Q.9 | | Write a prolog program to | (07) | |
| | a) b) | Sum of odd and even numbers between 1 to 100. To display given number in reverse order. | (08) | |
| Q.10 | | Write short notes on any THREE of the following: | (15) | |
| | a) | DENDRAL | | |
| | b) c) | Learning by example Scripts | | |
| | d) e) | Semantic nets Conflict resolution | | |

1