IMCA – 64

VI Semester Int. M.C.A. Examination, February/March 2010
ARTIFICIAL INTELLIGENCE

Duration : 3 Hours Max. Marks: 100

Instructions: *1) Answer **all** questions in Part **A**, **5** out of 8 questions in Part **B**, and **4** out of 6 questions in Part **C**.*
*2) Part **A**: Questions from **1 to 8** carry **1** mark **each** and **9 to 14** carry **2** marks **each**.*
*3) Part **B**: **Each** question carries **8** marks.*
*4) Part **C**: **Each** question carries **10** marks.*

PART – A

1. Define AI.
2. What is a PARSER ?
3. Explain any one predicate function in LISP.
4. Define associative network.
5. Define learning.
6. Mention any one matching algorithm.
7. Define knowledge.
8. Define intelligence.
9. Explain the imp of AI.
10. What is heuristic reasoning ?
11. Difference between procedural and declarative knowledge.
12. Mention the any two types of GRAMMERS.
13. Mention the any two types of searching.
14. State and prove DE-MORGANS LAW.

P.T.O.

PART – B

1. Explain the General Learning Model.
2. Mention the early works in AI.
3. Give an overview of knowledge base system.
4. Explain the Basic Parsing techniques.
5. Explain any two list manipulation functions in LISP.
6. Explain rule based system architecture.
7. Mention the structures used in matching.
8. Explain iteration in LISP.

PART – C

1. Explain fuzzy matching algorithm.
2. Explain dempster-shafer theory.
3. Explain the characteristics of an expert system.
4. Discuss various types of learning.
5. Explain any one searching technique.
6. Explain RETE matching algorithm.

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