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**Question Paper Code : 65081**

5 Year M.Sc. DEGREE EXAMINATION, MAY/JUNE 2013.

Sixth Semester

Computer Technology

XCS 363/10677 SW 602 — ARTIFICIAL INTELLIGENCE

(Common to 5 Year M.Sc. Software Engineering and 5 Year M.Sc. Information Technology)

(Regulation 2003/2010)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. List the properties of knowledge.
2. What is heuristic?
3. Define semantic networks.
4. Name any 3 frame languages.
5. Define Bayes theorem.
6. What is a Bayesian network?
7. Give an example for representing knowledge using semantic nets?
8. What are intelligent agents?
9. What are different ways of representing knowledge?
10. What are the types of learning?

PART B — (5 × 16 = 80 marks)

11. (a) Define state space search and illustrate how to define a problem as a state space search with an example. (16)

Or

- (b) Explain how the steepest accent hill climbing works. (16)

12. (a) Explain inference rules in brief with an example. (16)

Or

- (b) Discuss about conceptual dependency in detail with an example. (16)

13. (a) Describe Dempster and shafer theory in detail. (16)

Or

- (b) Explain in detail about min-max procedure with an example. (16)

14. (a) What is natural language processing? How will you generate language from the machine? (16)

Or

- (b) Discuss the different types of intelligent agents in detail with an example. (16)

15. (a) Elaborately explain the process of knowledge acquisition. (16)

Or

- (b) Explain the various types of learning in detail with an example. (16)