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BR—333—2016

FACULTY OF COMPUTER STUDIES
M.Sc. (Fourth Semester) EXAMINATION
NOVEMBER/DECEMBER, 2016

(Revised Course)
COMPUTER SCIENCE
Paper S-4.3 (Elective)
(Artificial Intelligence)

(Tuesday, 22-11-2016)

Time : 2.00 p.m. to 5.00 p.m.

Time—Three Hours

Maximum Marks—100

N.B. :— (i) All questions are compulsory.

(ii) Figures to the right indicate full marks.

(iii) Assume suitable data, if necessary.

1. (a) Explain uniformed search strategies. 10

(b) Explain local search in continuous spaces. 10

Or

(c) Explain Heuristic function in detail. 10

(d) Explain Adversarial search. 10

2. (a) Describe problem solving agents in AI. 10

(b) Explain structure of agents in AI. 10

Or

(c) Explain intelligent agents in AI. 10

(d) Explain local search algorithm and optimistic problems. 10

3. (a) Explain syntax and semantic for first order logic. 10

(b) What is backward chaining ? Explain. 10

Or

(c) Explain statistical learning methods. 10

(d) What is EM-algorithm ? Explain instance based learning. 10

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4. (a) Explain knowledge engineering in first order logic. 10
- (b) Explain knowledge representation in AI. 10
- Or*
- (c) Describe information retrieval and information extraction. 10
- (d) What is neural network ? Explain reinforcement learning. 10
5. Write short notes on any *four* : 20
- (a) Formal grammar for fragment of English
- (b) Communication as action
- (c) Online search agents
- (d) Avoiding repeats states
- (e) Alpha Beta Pruning
- (b) Resolution in AI.