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BR—330—2016

FACULTY OF SCIENCE

M.Sc. (Second Year) (Fourth Semester) EXAMINATION

NOVEMBER/DECEMBER, 2016

(CBCS Course)

COMPUTER SCIENCE

Paper CS-403 (Elective)

(Artificial Intelligence)

(Tuesday, 22-11-2016)

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

Time—Three Hours

Maximum Marks—75

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

(ii) Figures to the right indicate full marks.

1. Attempt the following (any *three*) : 15
 - (a) Explain structure of agents.
 - (b) Explain searching for solutions.
 - (c) Explain informed search strategies.
 - (d) Explain backtracking search and local search for CSP.
 - (e) Explain searching with partial information.
2. Answer the following (any *three*) : 15
 - (a) Explain online search agents and unknown environments.
 - (b) Explain imperfect real time decision.
 - (c) Explain optimal decisions in games.
 - (d) Explain syntax and semantics for first order logic.
3. Solve the following (any *three*) : 15
 - (a) Explain knowledge engineering in first order logic.
 - (b) Explain Heuristic function.
 - (c) Explain simulation and events.
 - (d) Explain ontological engineering.

P.T.O.

4. Attempt the following (any *three*) : 15
- (a) Explain learning using relevant information.
 - (b) Explain learning with hidden variable.
 - (c) Explain generalizaiton in reinforcement learning.
 - (d) Explain probabilistic language processing.
5. Write short notes on any *three* : 15
- (a) Intelligent agents
 - (b) Alpha-beta pruning
 - (c) Forward chaining
 - (d) Mental events and mental objects
 - (e) Ambiguity and disambiguation.