(06 Marks)

Fifth Semester B.E. Degree Examination, Dec.2018/Jan.2019 Artificial Intelligence

Time: 3 hrs. Max. Marks: 80 Note: Answer any FIVE full questions, choosing ONE full question from each module. Module-1 Define Artificial Intelligence and list the task domains of Artificial Intelligence. 1 (06 Marks) b. State and explain algorithm for Best First Search with an example. (06 Marks) c. Explain production system. (04 Marks) OR 2 a. Write a note on Water Jug problem using production rules. (08 Marks) b. Explain simulated annealing. (04 Marks) c. Explain problem reduction with respect to AND-OR graphs. (04 Marks) Module-2 a. Explain the approaches to knowledge representation. 3 (10 Marks) b. Write a note on control knowledge. (06 Marks) OR a. State the algorithm to Unify (L_1, L_2) . 4 (06 Marks) b. Write the algorithm for conversion to clause form. (10 Marks) Module-3 Explain Justification based Truth Maintenance System (TMS) with an example. 5 (08 Marks) b. Write a note on Non-Monotonic logic and default logic. (04 Marks) c. Explain abduction and inheritance. (04 Marks) OR a. Write a note on Dempster Shafer theory. 6 (08 Marks) b. Define semantic network with an example. (04 Marks) c. State Baye's theorem. (04 Marks) Module-4 a. Explain conceptual dependency along with its goals and representation. (08 Marks) b. Give the reasons to build large databases. (04 Marks) c. Write a note on iterative deepening. (04 Marks) OR 8 a. Write a note on global ontology. (10 Marks) Explain Minimax search procedure. (06 Marks) Module-5 Define learning and give the difference between neural net learning and genetic learning. (06 Marks) b. Write a note on Knowledge acquisition. (06 Marks) Explain Rote learning. (04 Marks) OR Explain the five phases of natural language processing. 10 (10 Marks)

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b. Explain spell checking techniques.