Roll No.

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TCS-801/TIT-801

B. Tech. (CS/IT) (Eighth Semester) Mid Semester EXAMINATION, June, 2017

ARTIFICIAL INTELLIGENCE

Time: Two Hours]

[Maximum Marks : 60

- Note: (i) This question paper contains three questions with alternative choice.
 - (ii) All questions are compulsory.
 - (iii) Each question carries four Parts (a), (b),(c) and (d). Attempt either Parts (a) and(b) or (c) and (d) of each question.
 - (iv) Each Part carries ten marks. Total marks assigned to each question are twenty.
- 1. (a) What are the different problems solving techniques? Explain Alan Turing Test.
 - (b) What is Intelligence? Give the components of intelligence.

Or

(c) What is Artificial Intelligence? What are the applications of Artificial Intelligence?

- (d) What is the difference between BFS and DFS? Explain water jug problem.
- 2. (a) What is informed search and uninformed search? Explain any two algorithms of each.
 - (b) Explain the parsing techniques with example.

Or

- (c) What is Context Free Grammar? What is the difference between Context Free Grammar and Transformational Grammar?
- (d) Explain Fillmore's grammar.
- 3. (a) Explain Hill Climbing search. Discuss the problems for Hill Climbing.
 - (b) What is game playing? Explain min-max algorithm.

Or

- (c) Explain A* Algorithm with Example.
- (d) What is Heuristic? Explain Best First Algorithm.