

Total No. of Questions : 6]

SEAT No. :

P264

[Total No. of Pages : 2

OCT.-16/BE/ Insem. -146
B.E. (E & TC)
ARTIFICIAL INTELLIGENCE
(2012 Pattern)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates:

- 1) *Figures to the right indicate full marks.*
- 2) *Assume suitable data if necessary.*

Q1) a) What is Artificial Intelligence? List the applications of Artificial Intelligence. **[5]**

b) Name four kinds of agent that embody the principles underlying all intelligence system. Discuss any one in detail. **[5]**

OR

Q2) a) Explain bidirectional search strategy also explain the limitations of it. **[5]**

b) Write a note on “PEAS” **[5]**

Q3) a) Explain greedy best first search algorithm with pseudo code. **[5]**

b) Explain simulated annealing hill climbing algorithm. **[5]**

OR

Q4) a) Explain constraint propagation in detail with example. **[5]**

b) Explain minimax search algorithm with pseudo code. **[5]**

Q5) a) Explain first order logic symbols with suitable example. **[5]**

b) Explain the Backward reasoning algorithm. How proof tree is used for Backward reasoning algorithm. **[5]**

OR

P.T.O.

- Q6)** a) Represent the following sentences by first order logic calculus. **[5]**
- i) Some dogs bark
 - ii) All dogs have four legs
 - iii) All barking dogs are irritating
 - iv) No dogs purr
 - v) Students are people who are enrolled in courses
- b) Compare forward and backward chaining algorithm. **[5]**

