Total No. of Questions : 4]

SEAT No. :

PB-105

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[6269]-319
T.E. (Computer Engineering) (Insem.)
ARTIFICIAL INTELLIGENCE
(2019 Pattern) (Semester - II) (310253)

Time : 1 Hour] *[Max. Marks : 30*

Instructions to the candidates:

1) ***Answer Q.1 or Q.2, Q.3 or Q.4.***
2) ***Neat diagrams must be drawn whenever necessary.***
3) ***Assume suitable data if necessary.***

Q1) a) Analyse the properties of agent task environment. **[6]**

b) What is an agent and its environment in AI? List the different types of environments with examples. **[6]**

c) Describe Real life applications of AI. **[3]**

OR

Q2) a) List and explain the potential risks and benefits of AI. **[5]**

b) Define rationality and rational agent. Explain with example. **[5]**

c) Write a note on the History of AI. Explain different applications of AI. **[5]**

Q3) a) Explain A* algorithm in detail with a suitable example. **[7]**

b) Explain in detail about problem solving agent with an example. **[4]**

c) Describe the local search and optimization problem. **[4]**

OR

Q4) a) Elaborate Hill Climbing Search with suitable examples. List the disadvantages of Hill Climbing Search. **[7]**

b) How is a Huristics search different from a Blind search? Explain. **[4]**

c) Compare and Contrast Depth First and Best First Search methods. **[4]**