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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 Heuristics search different from a Blind search? Explain. [4]
c) Compare and Contrast Depth First and Best First Search methods. [4]

