

Total No. of Questions : 4]

SEAT No. :

**PD98**

[Total No. of Pages : 1

**[6410]-419**

**T.E. (Computer Engineering) (Insem)  
ARTIFICIAL INTELLIGENCE  
(2019 Pattern) (Semester - II) (310253)**

*Time : 1 Hour]*

*[Max. Marks : 30*

*Instructions to the candidates:*

- 1) *Answer Q1 or Q2, Q3 or Q4.*
- 2) *Neat diagrams must be drawn wherever necessary.*
- 3) *Figures to the right indicates full marks.*
- 4) *Assume suitable data, if necessary.*

- Q1)** a) List and explain the potential risks and benefits of AI. [4]  
b) Write a brief note on foundation and history of AI. [5]  
c) What is an Intelligent agent? List and explain classes of agents. [6]

OR

- Q2)** a) Define AI. Give typical applications of AI in detail. [5]  
b) What is the concept of Rationality? [4]  
c) What is an agent and its environment in AI? List the different types of environments with example. [6]

- Q3)** a) Explain in detail about problem solving agent with an example. [5]  
b) Compare Depth First and Best First Search methods. [6]  
c) Write a note on Heuristic Functions. [4]

OR

- Q4)** a) List the differences between Informed and Uninformed search techniques. [5]  
b) Explain A\* algorithm in detail with example. [7]  
c) What is an Optimization problem? [3]

