

Total No. of Questions : 4]

SEAT No. :

PF-299

[Total No. of Pages : 1

Apr-26/TE/Insem-379
T.E. (Computer Engineering) (Insem.)
ARTIFICIAL INTELLIGENCE
(2019 Pattern) (Semester - VI) (310253)

Time : 1 Hour]

[Max. Marks : 30

Instructions to the candidates :-

- 1) *Answer the Q1. or Q2 and Q3 or Q4.*
- 2) *Neat diagram must be drawn whenever necessary.*
- 3) *Figures to the right side indicate full marks.*
- 4) *Assume suitable data if necessary.*

Q1) a) Explain different forms of Agent. With example. [8]

b) Explain the significance of PEAS in AI. [7]

OR

Q2) a) Explain any four type of task environment with example. [8]

b) Explain "Simple Reflex based Agent" with the help of schematic diagram or pseudo code. [7]

Q3) a) Explain A* algorithm and write its pseudo code. [7]

b) Write Min-max Search Algorithm for two players. How use of alpha and beta cut-offs will improve performance? [8]

OR

Q4) a) Explain hill climbing algorithm. Explain plateau, ridge, local maxima and global maxima. [7]

b) Define Heuristics. Explain the significance of Heuristic function in the informed search with suitable example. [8]

