Total No. of Questions : 4]

SEAT No. :

P8869

[Total No. of Pages : 1

Oct-22/TE/Insem-631

T.E. (Artificial Intelligence and Data Science)

ARTIFICIAL INTELLIGENCE

(2019 Pattern) (Semester - I) (310253)

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

Instructions to the candidates:

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

Q1) a) What is AI? Explain risk and benefits of AI. **[5]**

b) What is Intelligent Agent? Explain structure of agent and example with PEAS Property for Automatic Taxi Driving. **[10]**

OR

Q2) a) Differentiate between informed and uninformed search algorithms also explain iterative deepening search in short. **[5]**

b) i) Define state-space search technique

ii) Define CSP. Solve SEND
+ MORE

[10]

Q3) a) Explain the concept of Rationality **[5]**

b) i) Explain problem solving agents with suitable example.

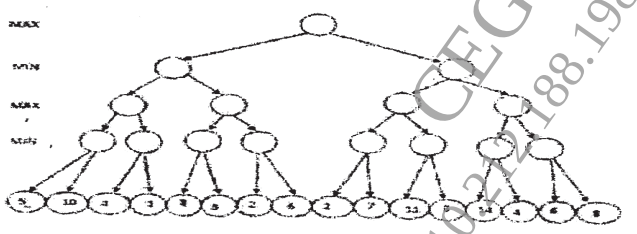
ii) Explain learning agents with its components.

[10]

OR

Q4) a) Differentiate between model-based agents & utility-based agents **[5]**

b) Explain Min Max Tree. Solve alpha-beta tree search for following search problem. Also given minimum two advantages of alpha beta algorithm over min max algorithm. **[10]**



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