Total No. of Questions : 5]

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S. A.A.

SEAT No. :

[Total No. of Pages : 2

S.Y.M.B.A. SC-BA-06 : ARTIFICIAL INTELLIGENCE IN

BUSINESSAPPLICATIONS

(404BA)

(2019 Pattern) (Semester-IV)

Time : 2¹/₂ Hours] Instructions to the candidates

- 1) All questions are compulsory.
- 2) Neat diagrams must be drawn wherever necessary.
- 3) Assume suitable data, if necessary.

Q1) Answer any 5 out of 8 :

- a) Define Artificial intelligence?
- b) Define first order logic.
- c) State Breadth-First search.
- d) Define machine learning.
- e) Define Hierarchical clustering.
- f) Define Artificial Neural Networks.
- g) Define terms 'Fact' and 'Rule'
- h) State uniform-cost search.

Q2) Answer any 2 out of 3 :-

- a) Distinguish between forward and backward chaining
- b) What is the common way to represent and parse grammars for natural language processing?
- c) Explain state space approach for solving any AI problem.

Q3) Answer 3 (a) or 3 (b) :

- a) Discuss the role of reasoning in AI. How prediate logic is used in AI to represent knowledge?
- b) Explain A * searching technique in detail with example. Discuss conditions for the optimality of this technique.

[Max. Marks : 50

[2 Marks each]

[10]

- *Q4*) Answer 4 (a) or 4 (b)
 - a) What are steps involved in natural language processing (NLP) of an English sentence? Explain with an example sentence.
 - b) Give an example of a problem for which breadth first search would work better than depth-first search.

Q5) Answer 5(a) or 5(b)?

- a) Write in getail about any two informed search strategies.
- b) Distinguish ambiguity and disambiguation in AI.