

Total No. of Questions : 5]

SEAT No. :

PD2736

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[Total No. of Pages : 2

S.Y.M.B.A.

404BA-SC-BA-06 : ARTIFICIAL INTELLIGENCE IN BUSINESS APPLICATIONS

(2019 Revised Pattern) (Semester - IV)

Time : 2½ Hours]

[Max. Marks : 50

Instructions to the candidates:

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

Q1) Answer any 5 out of 8 :

[10]

- a) Define the term entropy in decision tree learning
- b) What is the primary objective of hill-climbing search?
- c) What are the elements of predicate logic?
- d) Define first order logic.
- e) State uniform-cost search.
- f) Define Complexity of Analytics.
- g) Define Data and Big Data.
- h) What is PROLOG?

Q2) Answer any 2 out of 3 :

[10]

- a) What is the difference between Depth-First Search and Breadth-First Search?
- b) What is the common way to represent and parse Grammars for natural language processing?
- c) Explain in detail A* searching technique with an example.

P.T.O.

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

a) Explain Clustering with an example. **[10]**

OR

b) Discuss the Machine Learning Workflow. **[10]**

Q4) Answer 4 (a) or 4 (b) :

a) What is Artificial Intelligence? Explain applications of Artificial Intelligence. **[10]**

OR

b) What is NLP? What are the stages in NLP? **[10]**

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

a) What are the applications of neural network? **[10]**

OR

b) Explain any two informed searches. **[10]**

