PB4741

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S.Y.M.B.A.

SC-BA06: ARTIFICIAL INTELLIGENCE IN BUSINESS APPLICATIONS

(Revised 2019 Pattern) (Semester-IV) (404BA)

Time : 2½ Hours]　　　　　　　　　　　　　　　　　　　　*[Max. Marks : 50*

nstructions 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　　　　　　　　　　　　　　　　　　　　**[10]**

　　a)　Define the term Semantic.

　　b)　What is the full form of ANN and DNN?

　　c)　What is Boltzmann Machine?

　　d)　Define Clustering.

　　e)　What is parsing?

　　f)　Define Data Analysis.

　　g)　Define the term "heuristic search".

　　h)　Define terms 'Fact' and 'Rule'.

Q2) Answer any 2 out of 3 :　　　　　　　　　　　　　　　　　　　　**[10]**

　　a)　What is the difference between forward and backward chaining?

　　b)　What is the common way to represent and parse Grammars for natural language processing?

　　c)　Explain in detail DNN and its tools.

Q3) Answer 3(a) or 3(b):   **[10]**

a)   Explain in brief k-Means Algorithm.

<div align="center">OR</div>

b)   Discuss the role of reasoning in AI. How prediate logic is used in AI to represent the knowledge?   **[10]**

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

a)   Explain with an example Random Forest algorithm.   **[10]**

<div align="center">OR</div>

b)   Define ANN and explain the basic structure of ANN. Give an example of a real-world application of neural networks.   **[10]**

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

a)   Name one application area where knowledge-based systems are commonly used. Briefly explain how they assist in decision-making processes. **[10]**

<div align="center">OR</div>

b)   What is NLP? Explain in brief use cases of NLP?   **[10]**