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Total No. of Questions : 5]

SEAT No. : 28916

PA-3686

[Total No. of Pages : 2

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M.B.A. - II (Business Analytics)

SC-BA-04 : MACHINE LEARNING & COGNITIVE INTELLIGENCE USING PYTHON

(2019 Pattern) (Semester - III) (305 BA)

Time : 2½ hours] *[Max. Marks : 50*

Instructions to the candidates:

1) *Draw neat labeled diagram wherever necessary.*
2) *Figures to the right side indicate full marks.*
3) *Assume suitable data if necessary.*
4) *All questions are compulsory.*

Q1) Solve any five

a) Write a code in Python to display message "Hello World" [2]

b) Why there is need of machine learning? [2]

c) List basic operators used in Python. [2]

d) State any 2 differences between Lists and Tuples. [2]

e) What do you understand by function overloading in python? [2]

f) Define the term 'Cognitive Intelligence'. [2]

g) Idenfity the steps of KDD framework of machine Learning. [2]

h) Explain the term 'Data Cleaning & Preparation' while working with Data in Python. [2]

Q2) Solve Any two.

a) How to read and write files with open statement? Explain with example. [5]

b) Explain anyone Supervised Learning algorithm. [5]

c) Describe SEMMA process model of machine learning. [5]

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Q3) Solve any one

a) Explain Supervised Learning technique using K-Nearest Neighbour method. **[10]**

b) State and explain applications of supervised learning in any one domain which you know. **[10]**

Q4) Solve any one

a) Elaborate the applications of unsupervised learning in marketing domain. **[10]**

b) Distinguish between decision trees & linear regression technique with suitable example. **[10]**

Q5) Solve any one

a) Write a Python code for calculating facturial of a given number. **[10]**

b) How machine learning techniques will be useful for fraud analysis for credit card. Explain. **[10]**

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