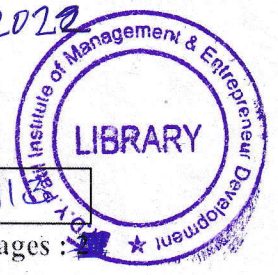


Oct/Nov-2022



Total No. of Questions : 5]

SEAT No. : 2891

PA-3686

[5946]- 318

[Total No. of Pages : 2]

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) Identify 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]

P.T.O.

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 factorial of a given number. [10]
- b) How machine learning techniques will be useful for fraud analysis for credit card. Explain. [10]

