

TM244563F

15.4

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024
2022 ADMISSIONS REGULAR
SEMESTER IV - P.G Diploma In Management In Business Analytics
BA4E01TM20 - Data Science Using Python

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight **(8x1=8)**

1. Define Object.
2. Define abs().
3. Define Shape() with example.
4. How do you create a 2-D array in python?
5. Write the statement for fetching the indexed elements "hello" and "hi" from the below list.
list1=[1,2,3,4,[5,6,7],[8,9,"hello",[11,12,"hi"]]]
6. How do you use LOWER function?
7. Define Dictionary.
8. Compare and contrast decision tree and random forest.
9. How does the function score help in prediction?
10. Define pandas.

Part B

II. Answer any Six questions. Each question carries 2 weight **(6x2=12)**

11. Comment on Python List Slicing
12. Name and comment Comparison operator in Python.
13. Write a program to input two numbers and to swap them without using user defined function.
14. Why you should use Numpy arrays instead of Nested python list in most cases? Explain it with suitable examples of NumPy array as well as Nested list.
15. Describe the Data Analysis process.
16. Distinguish Indexing and Slicing with appropriate examples.
17. Define machine learning.
18. Compare and contrast SVM and KNN.

Part C

III. Answer any Two questions. Each question carries 5 weight **(2x5=10)**

19. Compare and contrast For and While loop with an example.
20. How To Reverse A List In Python Using Slicing ?Write a program to reverse the element in an array using the slicing technique with the help of a user-defined function. Eg : [1,2,3,4],Output should be [4,3,2,1]
21. How can you build a simple Linear regression model in python?
22. How can you build a clustering model in python? Explain with example .

