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Total No. of Pages : 02

Total No. of Questions : 09

B.Voc. (Web Technology and Multimedia) (Sem.-6)

PROGRAMMING USING PYTHON

Subject Code : BVWM604-19

M.Code : 93635

Date of Examination : 24-11-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains FIVE questions carrying FIVE marks each and students have to attempt any FOUR questions.
3. SECTION-C contains THREE questions carrying TEN marks each and students have to attempt any TWO questions.

SECTION-A

1. Answer the following :

- a) How are random numbers generated in Python?
- b) What are immutable variables? Give example.
- c) What are the different types of operators available in Python?
- d) Explain the usage of global and local variables in Python.
- e) What are dictionaries? How are the values in dictionaries accessed?
- f) Illustrate string slicing using Python code.
- g) Explain how "if-else" and nested "if-else" statements work and provide examples.
- h) Explain the use of keyword arguments.
- i) Which Python modules and functions may be used to develop a web crawler?
- j) Write a brief note on sets in Python.

SECTION-B

2. Explain the key features and advantages of the Python programming language. Describe the steps involved in setting up a Python development environment.
3. Write about the functions in the random module that work on lists. With the help of program illustrate how the shuffle function is used to pick a random ordering of players in a game?
4. Discuss the various iterative statements available in Python. Write a program that asks the user for a weight and converts it from kilograms to pounds. Whenever the user enters a weight below 0, the program should tell them that their entry is invalid and then ask them again to enter a weight.
5. Write a detailed note on exceptions and assertions. Explain the process of exception handling in Python.
6. **Write brief notes on the following :**
 - a) Transferring files with FTP in Python
 - b) Django framework.

SECTION-C

7. Write a detailed note on different methods to read and write text from text files in Python.
8. Write a detailed note on the string datatype and its various methods and operations. Write a program to illustrate string comparison.
9. Explain the object oriented features of Python in detail. With the help of suitable examples, explain how classes and objects are created and used?

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.