UPES
End Semester Examination, May 2023

Course: Programming for Analytics   Semester   : IV
Program: MBA (Business Analytics)   Time   : 03 hrs.
Course Code: DSBA8004   Max. Marks: 100

Instructions:

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO

Q 1
 	
(i)
	What do we use to define a block of code in Python language?
	   a) Key
	   b) Brackets
	   c) Indentation
	   d) None of these
		2	CO1

(ii)	All keywords in Python are in _____ a) Capitalized b) lower case c) UPPER CASE d) None of the mentioned	2	CO1
(iii)	Which of the following is the correct extension of the Python file? a) .python b) .pl c) .py d) .p	2	CO1

(iv)	Study the following statements:
	>>> print(ord('h') - ord('z'))
	
	What will be the output of this statement?
	   a) 18
	   b) -18
	   c) 17
	   d) -17
		2	CO1

(v)	Study the following program: d = {0: 'a', 1: 'b', 2: 'c'} for i in d: print(i)		

	What will be the output of this statement? a) a b c b) 0 1 2 c) 0 a 1 b 2 c d) None of these above	2	CO1

Q 2
 	
(i)
	Study the following program:
	int1 = 10
	int2 = 6
	if int1 != int2:
	   int2 = ++int2
	   print(int1 - int2)
	What will be the output of this program?
	   a) 2
	   b) 4
	   c) 6
	   d) None
		2	CO2

(ii)	Which one of the following is the use of function in python? a) Functions don't provide better modularity for your application b) you can't also create your own functions c) Functions are reusable pieces of programs d) All of the mentioned	2	CO2

(iii)	The following python program can work with _____ parameters.
	def f(x):
	   def f1(*args, **kwargs):
	      print("Welcome")
	      return x(*args, **kwargs)
	   return f1
	a) any number of
	b) 0
	c) 1
	d) 2
		2	CO2

(iv)	Is Python case sensitive when dealing with identifiers? a) no b) yes c) machine dependent d) none of the mentioned	2	CO2

(v)	What is the method inside the class in python language?
	   a) Object
	   b) Function
	   c) Attribute
	   d) Argument
		2	CO2

SECTION B **4Qx5M= 20 Marks**			
Q 3	Write a short note on Python Popular Frameworks and Libraries.	5	CO2

Q 4	What is Token in Python? Illustrate the different tokens of Python with examples.	5	CO1
Q 5	Write a short note on Classes and Objects in Python.	5	CO3
Q 6	What is an Exception in Python? What are the different keywords used to handle the exception.	5	CO3
SECTION-C **3Qx10M=30 Marks**			
Q 7	What is Inheritance? Write a program to demonstrate the implementation of Inheritance in Python.	10	CO3
Q 8	Write a program in python to find the largest number among three numbers entered by user using nested if statements	10	CO2
Q 9	What are differences between List, Tuple, and Dictionaries in Python. Explain with proper syntax and examples.	10	CO1
SECTION-D **2Qx15M= 30 Marks**			

Q 10	Write a Program to display the fibonacci series based on the user input.
	
	(e.g. Fibonacci Series of 6 numbers:0 1 1 2 3 5)
	
	OR
	
	Write a Program in Python to print pyramid using for loop.
	
	       1
	     2 3 2
	   3 4 5 4 3
	  4 5 6 7 6 5 4
	 5 6 7 8 9 8 7 6 5
		15	CO2

Q 11	Write a program in Python to pass integer value to a function and return its factorial. **OR** What is the significance of using functions in Python? What is the difference between Built-in and user defined function. Write a program to demonstrate the use of __init__() Function.	15	CO3