



Name:

Enrolment No:

UPES

Supple ODD Semester Examination, December 2023

Course: Introduction to Python

Program: BA (HONS.) ECO

Course Code: CSBC1010

Semester : I

Time : 03 hrs.

Max. Marks: 100

Instructions:

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
Q 1			
I.	Which of the following is the correct extension of the Python file? a) .python b) .pl c) .py d) .p	2	CO1
II.	Which of the following is used to define a block of code in Python language? a) Indentation b) Key c) Brackets d) All of the mentioned	2	CO1
III.	Which keyword is used for function in Python language? a) function b) def c) fun d) define	2	CO1
IV.	Which of the following character is used to give single-line comments in Python? a) // b) # c) ! d) /*	2	CO1
V.	Python supports the creation of anonymous functions at runtime, using a construct called _____ a) pi b) anonymous c) lambda d) none of the mentioned	2	CO1
VI.	What is the order of precedence in python?	2	CO1

	<p>a) Exponential, Parentheses, Multiplication, Division, Addition, Subtraction</p> <p>b) Exponential, Parentheses, Division, Multiplication, Addition, Subtraction</p> <p>c) Parentheses, Exponential, Multiplication, Division, Subtraction, Addition</p> <p>d) Parentheses, Exponential, Multiplication, Division, Addition, Subtraction</p>		
VII.	<p>What does pip stand for python?</p> <p>a) Pip Installs Python</p> <p>b) Pip Installs Packages</p> <p>c) Preferred Installer Program</p> <p>d) All of the mentioned</p>	2	CO1
VIII.	<p>Which of the following is true for variable names in Python?</p> <p>a) underscore and ampersand are the only two special characters allowed</p> <p>b) unlimited length</p> <p>c) all private members must have leading and trailing underscores</p> <p>d) none of the mentioned</p>	2	CO1
IX.	<p>Which of the following is the use of id() function in python?</p> <p>a) Every object doesn't have a unique id</p> <p>b) Id returns the identity of the object</p> <p>c) All of the mentioned</p> <p>d) None of the mentioned</p>	2	CO1
X.	<p>Which of the following is not a core data type in Python programming?</p> <p>a) Tuples</p> <p>b) Lists</p> <p>c) Class</p> <p>d) Dictionary</p>	2	CO1
<p>SECTION B</p> <p>4Qx5M= 20 Marks</p>			
Q 2	Explain the concept of variables in Python and discuss the rules for naming variables.	5	CO2
Q 3	Differentiate between 'if', 'elif', and 'else' statements in Python. Provide an example scenario where each is useful.	5	CO2
Q 4	Define a function in Python and explain the advantages of using functions in programming.	5	CO2
Q 5	Discuss the differences between lists and tuples in Python. Provide examples to demonstrate their usage.	5	CO2
<p>SECTION-C</p> <p>3Qx10M=30 Marks</p>			
Q 6	Declare a variable price and assign the value 25.5 to it. Create another variable quantity with the value 10. Calculate the total cost and print it.	10	CO3
Q 7	Write a Python program that takes a user's age as input. If the age is less than 18, print "You are a minor," otherwise print "You are an adult."	10	CO3
Q 8	Create a loop that prints the first 5 even numbers (starting from 2).	10	CO3

	OR		
	Define a function average that takes a list of numbers as input and returns the average. Test the function with a list [10, 20, 30, 40, 50].		
SECTION-D			
2Qx15M= 30 Marks			
Q 9	Write a function reverse_string that takes a string as input and returns the reverse of the string. Test the function with the input "Python". (<i>using user defined function</i>)	15	CO4
Q 10	Create a dictionary representing the prices of items in a grocery store (e.g., {"apple": 1.5, "banana": 0.75, "bread": 2.0}). Write a program that iterates over the dictionary and prints each item and its price.	15	CO4