

--	--	--	--	--	--	--	--	--	--



GIET UNIVERSITY, GUNUPUR – 765022

B. C. A (Fourth Semester) Examinations, May - 2024

BCA20402 - Fundamentals of Python Programming

Time: 3 hrs

Maximum: 70 Marks

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions)

(1 x 10 = 10 Marks)

Q. 1 Answer ALL questions

	CO #	PO #
a. Is Python case sensitive when dealing with identifiers?	CO1	PO1
i. Yes		
ii. No		
iii. Machine dependent		
iv. None of the mentioned		
b. What is the output of the following snippet?	CO1	PO1
print (0.1 + 0.2 == 0.3)		
i. True		
ii. False		
iii. Error		
iv. Machine dependent		
c. Which of the following statements create a dictionary?	CO2	PO1
i. d = { }		
ii. d = {"john":40, "peter":45}		
iii.) d = {40:"john", 45:"peter"}		
iv. All of the above		
d. What will be the output of the following Python code?	CO2	PO1
>>>t = (1,2,4,3)		
>>>t[1:3]		
i. (1,2)		
ii. (1,2,4)		
iii. (2,4)		
iv. (2,4,3)		
e. Which of the following is a Python tuple?	CO1	PO1
i. [1, 2, 3]		
ii. (1, 2, 3)		
iii. {1, 2, 3}		
iv. None of the above		
f. for i in range (0,5):	CO3	PO1
print(i)		
i. 0,1,2,3,4		
ii. 0,1,2,3,4,5		
iii. 1,2,3,4,5		
iv. None of these		
g. Which of the following is a valid for loop in Python?	CO3	PO1
i. for(i=0; i < n; i++)		
ii. for i in range(0,5):		
iii. for i in range(0,5)		
iv. for i in range(5)		
h. Python supports the concept of class and object	CO4	PO1
i. True		
ii. False		
iii. Can't say		
iv. None of the above		
i. In python a class is declared using which of the following keyword	CO4	PO1
i. Def		
ii. Class		
iii. for		
iv. _class_		
j. When is the finally block executed?	CO4	PO1
i. When there is no exception		
ii. When there is an exception		
iii. When condition are satisfied		
iv. Always		

PART – B: (Short Answer Questions)**(2 x 10 = 20 Marks)**Q.2. Answer ALL questions

	CO #	PO #
a. How a string can be declared in python?	CO1	PO1
b. What are bitwise operators in python?	CO1	PO2
c. What is the difference between list and tuple in python?	CO2	PO1
d. How list can be constructed in python give with an example?	CO2	PO1
e. Write a program to print the calendar or the year 2024.	CO2	PO1
f. What is the use of break in loop give with an example?	CO3	PO2
g. Define lambda function in python.	CO3	PO1
h. What is <code>_init_</code> in python?	CO3	PO1
i. Recall <code>reduce()</code> in python.	CO4	PO1
j. What is Zero Division Error in python?	CO4	PO2

PART – C: (Long Answer Questions)**(10 x 4 = 40 Marks)**Answer ALL questions

	Marks	CO #	PO #
3.a. What are the features and applications of Python?	5	CO1	PO1
b. What is a data type? List out the types of data types with example.	5	CO1	PO2
(OR)			
c. What is comment line in python and recall various approaches of adding comment lines in python with suitable example?	5	CO1	PO2
d. Recall the rules and regulation to declare an identifier in python.	5	CO1	PO3
4.a. Enumerate the Strings and its methods with example.	5	CO2	PO1
b. Define Variable and mention rules for choosing names of Variable.	5		
(OR)			
c. Write a program to swap two numbers using assignment operator in python.	5	CO2	PO2
d. List various kind of bitwise operators in python.	5	CO2	PO3
5.a. Explain the syntax of the following statements and example programs (i) For loop (ii) While loop	5	CO3	PO2
b. Write a python program to check the number is palindromic number or not.	5	CO3	PO1
(OR)			
c. What is module in python? Recall the procedure to create a module with suitable example.	5	CO3	PO1
d. Write a python program to find the given year is leap or not.	5	CO3	PO2
6.a. Write a program to create a class called student and add the following members: (i) Name of the student, roll number, dues (ii) Add two methods called <code>getdata()</code> and <code>putdata()</code> to manipulate the members of the class. (iii) Finally create an instance for the class student and print the student details	10	CO4	PO1
(OR)			
b. Compare class and object with python code.	5	CO4	PO1
c. Recall the term encapsulation.	5	CO4	PO1

--- End of Paper ---