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GIET UNIVERSITY, GUNUPUR - 765022
M. C. A (Third Semester) Regular Examinations, January - 2024
MCA20303 - Python Programming

Time: 3 hrs

Maximum: 70 Marks

(The figures in the right-hand margin indicate marks.)

PART - A**(2 x 10 = 20 Marks)**Q.1. Answer *ALL* questions

	CO #	Blooms Level
a. Define extensible and embedded features.	CO1	K2
b. Define break and continue statements with examples.	CO2	K1
c. Define the use of int() and expect the output for int(False).	CO2	K2
d. Implement the code for swapping two numbers in a single line.	CO2	K3
e. List out any four types of errors in python.	CO2	K1
f. Explain the repetition operator with an example.	CO2	K2
g. Explain string slicing with an example.	CO3	K2
h. Implement a Python program to remove the repeated elements from a list.	CO3	K3
i. Define a constructor with an example.	CO2	K2
j. List out different methods for reading data from a file.	CO1	K1

PART - B**(10 x 5 = 50 Marks)**Answer ANY FIVE questions

	Marks	CO #	Blooms Level
2. a. Explain identity and membership operators with examples.	5	CO2	K2
b. List out and explain the fundamental data types in Python with an example.	5	CO1	K1
3.a. Implement reading three numbers from the keyboard and find the smallest number among them.	5	CO2	K3
b. Demonstrate how to create a user-defined module with an example.	5	CO2	K3
4. a. Given that n = [2, 3, 4, 6], write a map function to produce the squares of the list n. Output: s = [4, 9, 16, 36].	5	CO3	K3
b. Explain the tuple data type and any four inbuilt functions of the tuple.	5	CO1	K2
5.a. Implement a Python program to raise the ValueError in out try and ZeroDivisionError in inner try.	5	CO3	K3

b.	Define the concept of inheritance. Illustrate single-level and hybrid inheritances with examples.	5	CO4	K2
6. a.	How to import math module and implement any 5 math functions with an example.	5	CO4	K2
b.	Implement method-overloading concept with the help of variable length of arguments.	5	CO2	K3
7.a.	Implement a Python program to count the number of words, and lines in a file.	5	CO3	K3
b.	Justify the purpose of tell() and seek() methods in the file with an example.	5	CO2	K4
8. a.	Justify how to define and raise a customized exception with an example.	5	CO2	K3
b.	Define list compression with an example.	5	CO2	K2

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