GANDHI INSTITUTE OF ENGINEERING AND TECHNOLOGY, ODISHA, GUNUPUR
(GIET UNIVERSITY)
M.C.A (Third Semester) Regular Examinations, November – 2024

MCA23302–PYTHON PROGRAMMING
(MCA)

Time: 3hrs   Maximum: 60 Marks

PART – A   (2 x 5 = 10 Marks)

Q.1. Answer **ALL** questions

		CO #	Blooms Level
a.	Python variables do not have specific types. Justify this statement using an example.	CO1	K4
b.	Differentiate: Continue Versus Break Statements.	CO2	K2
c.	Define the term Polymorphism.	CO3	K1
d.	Write a Python program to count words in a sentence using split() function.	CO4	K6
e.	Expand and give a note on SQL.	CO5	K1

PART – B   (10 x5=50 Marks)

Answer **ALL** questions

		Marks	CO #	Blooms Level
2. a.	Discuss the basic operators available in Python with examples.	8	CO1	K2
b.	Are Tuples immutable? Justify your answer.	2	CO1	K4
	(OR)			
c.	Illustrate the various operations and methods will be performed on List and Dictionaries.	8	CO1	K3
d.	How to implement comments in Python?	2	CO1	K3
3.a.	Demonstrate with Python code to print "Welcome to GIET" four times using While and For loops.	8	CO2	K6
b.	Write down the syntax and flowchart for if – else statement.	2	CO2	K2
	(OR)			
c.	Define Function. How to call and pass parameters to a function?	8	CO2	K1
d.	Why do we use pass statement in Python?	2	CO2	K2
4.a.	What is an Exception? How to handle exception in Python?	8	CO3	K2
b.	List out any two file opening modes available in Python.	2	CO3	K1
	(OR)			
c.	How to read and write contents in Files in Python? Write a simple code.	8	CO3	K2

d.	Define Inheritance. List out its types.	2	CO3	K1
5.a.	Articulate any four functions available in each math and random modules. Write a Python code to implement above functions.	8	CO4	K2
b.	Write down any two applications of Regular Expressions.	2	CO4	K2

<div align="center">(OR)</div>

c.	Implement the following functions compile(), finditer(), match(), search() in Python programming.	8	CO4	K3
d.	Narrate the significance of external modules.	2	CO4	K2
6.a.	How to connect database through Python? Illustrate with an example code.	10	CO5	K6

<div align="center">(OR)</div>

b.	Write the procedure to create a table and search its contents using Python.	10	CO5	K6

<div align="center">--- End of Paper ---</div>