B.E. / B.Tech. - DEGREE EXAMINATIONS, NOV / DEC 2025

Second Semester

Electronics and Communication Engineering

(Common to Mechanical Engineering)

20ESIT201 - PYTHON PROGRAMMING WITH LABORATORY

Regulations - 2020

Duration: 3 Hours   Max. Marks: 100

PART - A (MCQ) (10 × 1 = 10 Marks)
Answer ALL Questions

		Marks	K-Level	CO
1.	Which keyword is used for conditional statements in Python?	1	K1	CO1
	(a) while (b) for (c) if (d) switch			
2.	What is the correct way to declare a variable in Python?	1	K1	CO1
	(a) variable name = value (b) name = value			
	(c) set name = value (d) declare name = value			
3.	____ is the output of the following code?	1	K2	CO2

```
for i in range(1, 6):
if i == 3:
continue
print(i)
```

    (a) 1 2   (b) 1 2 3   (c) 1 2 4 5   (d) 1 2 4

		Marks	K-Level	CO
4.	What is the purpose of the for loop in Python?	1	K1	CO2
	(a) To execute a block of code repeatedly until a condition is false			
	(b) To iterate over items in a sequence			
	(c) To execute a block of code a fixed number of times			
	(d) To define a function			
5.	Which method is used to split a string into a list of substrings based on a delimiter in Python?	1	K1	CO3
	(a) split() (b) substring() (c) separate() (d) divide()			
6.	Suppose t = (1, 2, 4, 3), which of the following is incorrect?	1	K2	CO3
	(a) print(t[3]) (b) t[3] = 45 (c) print(max(t)) (d) print(len(t))			
7.	Which keyword is used for function?	1	K1	CO4
	(a) define (b) fun (c) def (d) function			
8.	Which keyword is used to import a module in Python?	1	K1	CO4
	(a) use (b) require (c) import (d) include			
9.	What will be the output of the following code snippet?	1	K2	CO5

```
x = 10
y = "20"
print(str(x) + y)
```

    (a) 30   (b) "1020"   (c) Error   (d) "10200"

		Marks	K-Level	CO
10.	Which keyword is used to handle exceptions in Python?	1	K1	CO6
	(a) try (b) catch (c) except (d) handle			

PART - B (12 × 2 = 24 Marks)
Answer ALL Questions

		Marks	K-Level	CO
11.	List the difference between Interpreter and Compiler.	2	K2	CO1
12.	State about Python variables.	2	K1	CO1
13.	Define control statement. What are all the types?	2	K1	CO2
14.	Write the syntax of for loop in python.	2	K1	CO2

K1 – Remember; K2 – Understand; K3 – Apply; K4 – Analyze; K5 – Evaluate; K6 – Create   **14197**

15. Define list with an example.	2	K1 CO3
16. State Python tuple.	2	K1 CO3
17. Compare Local and Global variables in Python functions.	2	K2 CO4
18. Define Fruitful functions with an example.	2	K1 CO4
19. Write the program to check whether the given number is odd or not.	2	K3 CO5
20. Write the syntax to define a function.	2	K1 CO5
21. Define Try Except in Python.	2	K2 CO6
22. State python Zero Division Error.	2	K1 CO6

PART - C (6 × 11 = 66 Marks)
Answer ALL Questions

23.	a)	List the types of operators in python and explain each with an example.	11	K2 CO1
		OR		
	b)	Write a python program to perform Arithmetic Operations.	11	K2 CO1
24.	a)	Implement a Python program that prints the multiplication table of a number using a for loop.	11	K3 CO2
		OR		
	b)	Write a program to find whether the given number is prime or not.	11	K3 CO2
25.	a)	List out the operations and methods that are available with Python Dictionaries.	11	K2 CO3
		OR		
	b)	Explain String functions and Methods used in Python.	11	K2 CO3
26.	a)	Write a program for addition of two integers using functions in Python.	11	K2 CO4
		OR		
	b)	Explain the use of Python functions for finding the GCD of two given numbers.	11	K2 CO4
27.	a)	Write a Python function that takes a list of numbers as input and returns their average.	11	K3 CO5
		OR		
	b)	Write a Program to find greatest among two numbers using function.	11	K3 CO5
28.	a)	Sketch the working principle of Exception handling with examples.	11	K3 CO6
		OR		
	b)	Write a program to explain the concept of multiple except block and else clause.	11	K3 CO6