



QP CODE: 25047509



25047509

Reg No :

Name :

M.Sc DEGREE (CSS) EXAMINATION, NOVEMBER 2025

Third Semester

M Sc ELECTRONICS

Core Course - EL010303 - OBJECT ORIENTED PROGRAMMING

2019 ADMISSION ONWARDS

0E873603

Time: 3 Hours

Weightage: 30

Part A (Short Answer Questions)

*Answer any **eight** questions.*

Weight 1 each.

1. How do you apply slicing on a string?
2. What are membership operators? Give examples for usage.
3. What are the different ways in which the flow control can be changed in python?
4. What is the use of numpy?
5. How can instance variable be accessed outside a class?
6. What is Method Overriding?
7. What are the different types of Exceptions in Python?
8. What is the use of os module?
9. What is the language used by Raspberry Pi?
10. What are the steps to be followed in generating sound using GPIO ports?

(8×1=8 weightage)

Part B (Short Essay/Problems)

*Answer any **six** questions.*

Weight 2 each.

11. Briefly explain the features of Python Programming.
12. Write a program to convert elements of two lists into key-value pairs of a dictionary.
13. Write a program to display the numbers of a series 1,4,9,16,25.....n by using for loop
14. Write a python program to storing student's marks into an array and finding total mark and percentage of marks.





15. What are Accessor methods and Mutator methods? Give examples.
16. Explain single Inheritance with an example
17. Write in detail about Python assert statement.
18. How would you interface DC motor with Raspberry Pi for controlling the speed?

(6×2=12 weightage)

Part C (Essay Type Questions)

*Answer any **two** questions.*

*Weight **5** each.*

19. Illustrate the built-in list methods with example.
20. Write in detail about anonymous functions.
21. Explain creating classes in Python with examples.
22. Discuss the GPIO pins in Raspberry Pi. Explain how these pins are programmed using Python.

(2×5=10 weightage)

