

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 What is Python programming language? Write down its applications and features.
- Q.24 Write a Python program to demonstrate inheritance with base and derived classes.
- Q.25 Explain strings in Python in detail with operations like traversal, slicing comparison, and methods.

No. of Printed Pages : 4
Roll No.

222834/212834

3rd Sem / Automation & Robotics

Subject : Python Programming

Time : 3 Hrs.

M.M. : 60

SECTION-A

Note: Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 Boolean values in Python are represented as:
- a) Yes and No b) True and False
c) 1 and -1 d) 1 and 0 only
- Q.2 Which of the following functions is used to find the length of a string?
- a) Count () b) length ()
c) len () d) size ()
- Q.3 The function of open a file in Python is:
- a) file () b) fopen ()
c) open () d) read ()

- Q.4 What is an instance of a class called?
- a) Attribute
 - b) Object
 - c) Method
 - d) Module

- Q.5 Polymorphism in OOP means:
- a) Same function name with different forms
 - b) Copying objects
 - c) Using multiple classes
 - d) Multiple inheritance only

- Q.6 NULL in databases means:
- a) Zero
 - b) Empty string
 - c) Missing or undefined value
 - d) False

SECTION-B

Note: Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7 What is a semantic error?
- Q.8 What does NULL represent in databases?
- Q.9 What is the default Boolean value of an empty string?

- Q.10 Give an example of a tuple in Python.
- Q.11 What is an instance variable?
- Q.12 What do you understand by exception handling?

SECTION-C

Note: Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain variables and data types in Python with examples.
- Q.14 Write a program to swap two variables using a temporary variable.
- Q.15 Differentiate between for loop and while loop with example.
- Q.16 Write a program to merge two sorted lists into a single sorted list.
- Q.17 Define function. Write down the advantages of function.
- Q.18 Explain aliasing and cloning in lists.
- Q.19 Explain the various built-in modules in python.
- Q.20 Explain primary key and foreign key in databases.
- Q.21 Compare object oriented programming and procedural programming.
- Q.22 What is inheritance in Python? Explain its types.