

Q.P. Code – 42639

Sixth Semester B.Sc. Degree Examination, September 2020

(CBCS Scheme)

**Computer Science**  
**PYTHON PROGRAMMING**

Time : 3 Hours]

[Max. Marks : 90

Instructions to Candidates : Answer all Sections.

SECTION – A

I. Answer any **TEN** of the following : (10 × 1 = 10)

1. What is indentation in python?
2. What is a literal?
3. Which is the output statement used in python?
4. What is a Set?
5. Mention any two types of errors in python.
6. Give one example for a dictionary in python.
7. What is destructor?
8. What is a Namespace?
9. Write any two DDL commands.
10. Why we use commit( ) in python?
11. Which tool is used to develop GUI Applications?
12. What do you mean by exception handling?

Sree Siddaganga College of Arts  
Science & Commerce for women  
LIBRARY, TUMKUR.

SECTION – B

II. Answer any **FIVE** of the following : (5 × 3 = 15)

13. Explain membership operators in python.
14. Explain pass statement with an example.

### Q.P. Code – 42639

15. Explain regular expression.
16. Explain constructor overriding with an example.
17. How to connect database in python? Explain.
18. Write a python program to check whether given number is Armstrong or not.
19. Write a python program to plot Bar Graph.

#### SECTION – C

III. Answer any **SIX** of the following : (6 × 5 = 30)

20. Explain any five features of python.
21. Explain any five operations on string with an example.
22. What is Module? Explain with an example.
23. What is a file? Explain file opening modes with an example.
24. Explain any three form elements in python.
25. What is super( )? Explain with an example.
26. Explain DML commands.
27. Write a python program to calculate the sum of two matrices.

#### SECTION – D

IV. Answer any **FIVE** of the following : (5 × 7 = 35)

28. Explain Arithmetic and Relational operators with an example.
29. (a) Explain the looping statements with an example.  
(b) Write a python program to illustrate exception handling. (4 + 3)
30. Define List. Explain different types of operations on list in python.

31. What is an inheritance? Write a python program to implement multiple inheritance.
32. (a) What is thread? Explain multithreading with an example.  
(b) Write a python program to demonstrate user defined functions to find the area of Rectangle, Square, Circle and Triangle. **(4 + 3)**
33. (a) Explain numeric and string datatypes in python database.  
(b) Explain any three python database functions. **(4 + 3)**
34. A population of 1000 bacteria is introduced into a nutrient medium. The population ' $P$ ' grows as follows :  $P(t) = (15000(1+t))/(15+e)$  where the time  $t$  is measured in hours. Write a program to determine the size of the population at given time  $t$  and plot a graph for  $PV_s t$  for the specified time interval.

---

Sree Siddaganga College of Arts  
Science & Commerce for women  
LIBRARY, TUMKUR.