



B.Sc. V Semester Degree Examination, April/May - 2024

COMPUTER SCIENCE

DSC5 : Programming in Python

(NEP)

Time : 2 Hours

Maximum Marks : 60

Note : Answer *all* Sections.

SECTION - A

1. Answer the following sub-questions. Each sub-question carries **one** mark. **10x1=10**

- (a) Name two modes of Python.
- (b) What is a statement ?
- (c) What is an exception ?
- (d) Mention the types of function.
- (e) Write the basic tuple operations.
- (f) What is sets ?
- (g) Mention the basic file types.
- (h) What is Polymorphism ?
- (i) What is Tkinter ?
- (j) Why do we use NumPy ?



SECTION - B

Answer **any four** of the following questions. Each question carries **five** marks. **4x5=20**

2. Discuss the basic datatypes of Python.
3. Write a Python program to demonstrate user defined function.
4. Explain the built in functions used on dictionaries.
5. Describe the various access modes of the file.
6. What is SQLite ? Mention the operations on tables in SQLite.
7. Explain exception handling with an example.

SECTION - C

Answer **any three** of the following questions. Each question carries **ten** marks.

3x10=30

8. Explain features of Python.
9. Explain any five string methods with syntax and example.
10. Define List. Write a Python program to demonstrate the use of list.
11. What is inheritance ? Explain the types of inheritance.
12. Write a Python program to draw line chart and bar chart using Matplotlib.

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