



47821/D0210

Reg. No. **IV Semester BCA. 6 Degree Examination, October - 2023****Python Programming****(Regular)****Time : 2 Hours****Maximum Marks : 60****Instructions to Candidates:**

1. All sections are compulsory
2. Write lines of code with its output wherever necessary.

SECTION - A**Answer any Ten of the following questions.****(10×2=20)**

- ~~1.~~ What is Python Programming Language?
- ~~2.~~ List the features of Python.
- ~~3.~~ Define statement and expression.
4. Write the syntax to define a user defined function.
5. Mention the control flow and looping statements of Python.
6. Illustrate indexing and slicing of a string using IDLE command line mode.
- ~~7.~~ Define a recursive function.
- ~~8.~~ List the operations on sets supported by Python.
- ~~9.~~ Define inheritance, mention its types.
10. What is operator overloading?
11. Mention Three geometry layout management methods of Tkinter for window and widgets.
- ~~12.~~ What the major advantages of using Numpy arrays over Python Lists?

SECTION - B**Answer any Four of the following questions.****(4×5=20)**

13. Write a python program to find the summation of first 100 odd natural numbers using for loop and range ()
- ~~14.~~ Define an error and exception. Explain how exceptions are handled in Python.
- ~~15.~~ Explain built-in functions and methods used on lists.

[P.T.O.]



- ~~16.~~ Define file with its types. Explain at least six access modes of file open ().
17. What is a widget? List Six common widgets, demonstrate any 2 of them with a Tkinter code.

SECTION - C

Answer any Two of the following questions, Each carries 10 marks. (2×10=20)

18. Explain in detail all the operators supported by Python.
- ~~19.~~ a) Write a Python program to demonstrate string functions and methods.
- b) Define the following the pillars of OOPs concept
- ~~i)~~ Class
 - ~~ii)~~ Object
 - iii) Encapsulation
 - ~~iv)~~ Constructors
 - v) Polymorphism
20. a) Create Sqlite Database and perform CRUD operations on table (Create/Read/Update/Delete).
- b) Write a Python program to draw a PIE and BAR-Charts using Matplotlib library module.

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