

IV Semester B.C.A. 5 Degree Examination, September/October - 2022

PYTHON PROG

(Regular)

Time : 3 Hours

Maximum Marks : 80

Instructions to Candidates:

1. All Sections are compulsory
2. Give examples wherever necessary.

SECTION - A

Answer any Ten questions.

(10×2=20)

1. a) Define Python Who developed it?
- b) How to accept user input ? Give example.
- c) How to declare single and multiline comments in python?
- d) What is a list ? Give example.
- e) State any two differences between type and list.
- f) What is Assertion?
- g) What is -- init -- ( ) ?
- h) What is inheritance? Give syntax to derive a child class from a parent class.
- i) What is lambda function? Give example
- j) Write the use of any two functions used in GUI layout Management.
- k) What is cursor?
- l) Write an example for mutable and immutable types.

SECTION - B

Answer any Four questions.

(4×5=20)

1. Explain features of python.
2. Describe various string operations.

[P.T.O.]

3. Explain various conditional statements with syntax & example.
4. Explain various functions used in regular expression.
5. Describe various operations performed on list.
6. Explain the functions used for reading single and multiple lines of query execution.

### SECTION - C

Answer any four questions.

(4×10=40)

7. a) What is a function? Demonstrate defining and calling user defined function with syntax and example.  
b) Write a python program to calculate Factorial of a number using user defined function.
8. a) Write a python program to demonstrate any 5 operations performed on dictionary.  
b) Explain the working of any five GUI widgets with example.
9. Explain the keywords used in handling exceptions Demonstrate with an programming example.
10. Explain in detail the steps of database connectivity with example.
11. Write a short note on any two of the following
  - a) File operations
  - b) Map ( ) functions
  - c) Meta characters.