**V Semester B.C.A. Degree Examination, March/April - 2021**
## PROGRAMMING WITH PYTHON
### Regular/Repeaters

**Time : 3 Hours**                                              **Maximum Marks : 80**

*Instructions to Candidates :*      1.    All sections are compulsory.

                                         2.    Give examples and syntax wherever necessary.

### SECTION - A

Answer the following questions.                                 **(10×2=20)**

1.    a)    Define python.

       b)    Name Data types in python with examples.

       c)    Define List and dictionaries with example.

       d)    Mention the task of Software Quality Assurance group.

       e)    What are Assertions.

       f)    Define Testing. Mention types of testing.

       g)    What is Regular Expression?

       h)    Name any two Tkinter widgets with example.

       i)    What is Cursor?

       j)    Define commit and rollback.

### SECTION - B

Answer any **four** of the following questions.                       **(4×5=20)**

2.    Explain any five python features.

3.    Explain any five string methods wiht an example.

4.    What is Exception handling? Write a python Program to demonstrate exception handling.

5.    Explain any five Meta characters with respective regular expressions in python.

6.    Write steps for database connectivity in Python.

**[P.T.O.**

## SECTION - C

Answer any **four** of the following questions.  **(4×10=40)**

7.  a)  Explain if and if else statements in python with example.

    b)  What is recursion? Write a python program to calculate factorial of a given no using recursion.

8.  What is Tuple? Explain any 5 built in sunction of tuple with example.

9.  Explain the terms with respective python

    a.  Object and class

    b.  Inheritance

    c.  Encapsulation

    d.  Information Hiding.

10. Explain any 5 python widgets related to GUI.

11. Write a python program to insert and display the Employee details in the database. (Empid, empname, empaddress).

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