BCA -IVC

Reg. No.

**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.

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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.

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**V Semester B.C.A. 4 Degree Examination, March - 2022**

## PROGRAMMING WITH PYTHON

(Repeater / Regular)

Time : 3 Hours                                    Maximum Marks : 80

*Instructions to Candidates :*

1) *ALL Sections are Compulsory.*
2) *Give examples wherever necessary..*

### SECTION - A

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

1. a) Define Python.
   b) Define Variable. State the rules of defining a variable.
   c) Define Tuples. Give an example.
   d) Differentiate between Lists and Dictionaries.
   e) State the significance of Range ( )
   f) Define Testing.
   g) Define Inheritance and Encapsulation.
   h) Define Regular Expression.
   i) Name any four Tkinter widgets.
   j) What is Cursor ?

### SECTION - B

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

2. Explain Scoping with examples.
3. Explain any five String built-in functions with examples.
4. Differentiate between Block-box and White-box Testing.
5. Explain any five Meta characters with Regular Expressions.
6. Explain steps for Database connectivity in python.

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## SECTION- C

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

7.  a)  Explain features of python.    (5)

    b)  Explain Recursion with an example    (5)

8.  Explain any five built-in functions of Dictionaries with example    (10)

9.  a)  Explain Exception Handling in python.    (5)

    b)  Explain Debugging in python    (5)

10. Explain any five Widgets related to GUI    (10)

11. Explain following terms each:    (5×2=10)

    i)    Commit ( )

    ii)   Alter table

    iii)  Update operation

    iv)   Fetchall ( )

    v)    Delete ( )

## 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.

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## 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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### V Semester B.C.A. UG Examination, September - 2020
### PROGRAMMING WITH PYTHON
### (Repeater)

Time : 3 Hours

Maximum Marks : 80

*Instructions to Candidates:*

    1)    All Sections are compulsory

    2)    Give examples and syntax wherever necessary.

### SECTION - A

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

    a)    Define python?

    b)    Define variable? Give example.

    c)    What are Ranges?

    d)    Define Testing? Mention types of testing.

    e)    What is Assertion in python. Give syntax.

    f)    Define Regular expressions.

    g)    Define IDE's of python.

    h)    Define database?

    i)    Define single query.

    j)    Define strings in python. Give syntax.

### SECTION - B

Answer any **FOUR** of the following:     (4×5=20)

2. What are objects of python. Explain types of objects with syntax.

3. Explain functions as objects of python?

4. Explain Debugging in python? Discuss types debugging.

5. Discuss (Tkinter) GUI in python.

6. Write steps for database connectivity using python?

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## SECTION - C

Answer any **FOUR** of the following: (4×10=40)

7.  a) Explain Branching in python. (5)

    b) Explain Iteration? Give program example. (5)

8.  a) Explain lists and Tuples. (5)

    b) Discuss dictionaries in python? (5)

9.  a) Explain Exception handling in python? (5)

    b) Explain Inheritance and Encapsulation properties of python? (5)

10. Explain in detail with examples of any five widgets of python? (10)

11. Explain following terms each. (5×2=10)

    i) Match

    ii) Fetch all ( )

    iii) Search

    iv) Execute functions

    v) Connect and cursor.

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### V Semester  BCA 4 Degree Examination, Nov./Dec. - 2019
### PROGRAMMING WITH PYTHON
### (Regular)
### Paper : BCA4

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

***Instructions to Candidates:***

All sections are compulsory.

## SECTION - A

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

    a)   What is python?

    b)   Define scalar & non scalar objects?

    c)   Define tuples?

    d)   Write an examples for mutable & immutable types?

    e)   What is heigher order function in programming?

    f)   Define testing & Debugging?

    g)   What you mean by Inheritance?

    h)   What is Exception?

    i)   What is regular expression?

    j)   What is Data base?

## SECTION - B

Answer any **FOUR** the following                                       (4×5=20)

2.  Write a syntax to define functions in python? Write a python program to find largest of two numbers using function?

3.  Explain any five string methods with an example?

4.  Explain Blackbox & Glassbox testing?

5.  Write a python program to show draw shapes? (line, oval, rectangle)

6.  Write steps to connect database in python?

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**SECTION - C**

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

7.  a) What is recursion explain with a program? (5)

    b) What is file? Explain any five file methods? (5)

8.  Explain lists and dictionaries with example? (10)

9.  a) Explain exception handling mechanism in python? (5)

    b) Write a python program to demonstrate use of try, except, finally? (5)

10. Explain any 10 widgets used in auI programming of python? (10)

11. a) Explain while & for loop statements in python? (5)

    b) Show how we can match & search characters using regular expression? (5)

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