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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)**

EXAMINATION: JUNE - 2022

SEMESTER - V

Sub : Python (BCA -541-18)

Date : 25/06/2022

Total Marks : 60

Time: 10.00 am to 12.30 pm

Instructions:

- 1. All questions are compulsory unless and otherwise stated.*
 - 2. Bold figures to the right of every question are the maximum marks for that question.*
 - 3. Candidates are advised to attempt questions in order.*
 - 4. Answers written illegibly are likely to be marked zero.*
 - 5. Use of scientific calculators, Log tables, Mollier Charts is allowed.*
 - 6. Draw neat and labeled diagrams wherever necessary.*
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Q.1. Fill in the blanks.

(05)

- _____ and _____ are the two modes of Python.
a) SCRIPT & Interactive
b) SCRIPT and active
c) Interactive & Active
d) Script & File
- _____ is the shortcut key to run a PYTHON program
a) F2
b) F5
c) F3
d) F1
- The data type to represent a true value is _____ .
a) bool
b) int
c) float
d) char
- _____ operator gives the remainder in PYTHON.
a) modulus(%)
b) division
c) minus
d) substitution
- A _____ determines the type of data stored in a variable.
a) Data type
b) Data modules
c) Data
d) Database

Q.2. State True/False.

(05)

- 3 + 4 is not a Boolean expression?
 - Python language was developed in the year 1987.
 - .py is the correct extension of the Python file
 - Indentation is used to define a block of code in Python language.
 - Function is not a method inside the class in python language.
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Q.3. Answer the following. (Solve any 5)

(10)

1. What do you mean by python indentation?
2. What is the difference between list and tuples in Python?
3. What are the key features of Python?
4. What are python modules? Name any one commonly used built-in modules in Python?
5. What are local variables and global variables in Python?
6. How to install Python on Windows and set path variable?

Q. 4. Answer the following in detail. (Solve any 6)

(30)

1. What is `__init__`? Explain it with suitable example.
2. What is a dictionary in Python? Explain with suitable code.
3. Explain list slicing with suitable example.
4. Write Python Program to Calculate the Area of a Triangle.
5. Explain types of loops used in python with example.
6. Write a python program to find out whether the given number is prime or not.
7. Explain OOPs concepts in python with example.
8. Explain python operators in details.

Q. 5. Answer the following in detail. (Solve any 1)

(10)

1. Explain database connectivity in python with suitable example.
 2. Explain Exception handling with suitable example.
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