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EXAMINATION: DECEMBER -2022

SEMESTER - V

Sub: Python (BCA –541-18/541-20/BCA-CS-541-20)

Date :14/12/2022

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.

Q.1. Fill in the blanks.

(05)

1. _____ and _____ are the two modes of PYTHON.
 - a) cmd and GUI
 - b) Text and Images
 - c) Script and Interactive
 - d) None
2. _____ is called exponent operator in python.
 - a) **
 - b) //
 - c) *
 - d) #
3. IDLE stands for _____.
 - a) Imported Development and Linking Environment
 - b) Integrated development and learning environment.
 - c) Inherited development and learning environment
 - d) None
4. The shortcut key to run a Python program from script mode is _____.
 - a) F4
 - b) F3
 - c) F5
 - d) F1
5. The _____ function removes all the elements of a list/dictionary.
 - a) clear()
 - b) format()
 - c) remove()
 - d) delete()

Q.2. State True/False.

(05)

1. Error Handling is also known as Exception handling.
2. Python is not open source programming language.
3. Python django library is used for game development.
4. Python is developed by Tim Berners Lee.
5. @ character is used in Python to make a single line comment.

Q.3. Answer the following. (Solve any 5)

(10)

1. Why python is called as high level programming language?
2. Explain any two tuple functions in brief.
3. How to create list in python?
4. Explain set intersection operation in python.
5. Explain Class and objects in brief.
6. Explain control statements in python with example.

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

(30)

1. Write a program to print the following number pattern using a loop.

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

2. Explain the steps for database connectivity in python with suitable example.
3. Explain python loops with example.
4. Define Set. Explain any four SET operations in detail.
5. Write python program to add Two Matrices.
6. Explain List functions & methods with suitable example.
7. Write a python program to Check whether the given number is prime or not.

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

(10)

1. Define key-value pair. Explain steps to create initialize and access the elements in a dictionary.
 2. Define Exceptions. Explain Python exception handling in detail with suitable example.
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