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BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)(044)/
SPECIALIZATION IN CYBER SECURITY (CS)(464)
EXAMINATION: MAY/JUNE - 2026
SEMESTER - V

Sub: Python/Python Programming
(BCA-541-20/BCA-CS-541-20/BCA23-501/BCAC23-501)

Date : 03/06/2026

Total Marks : 60

Time: 10.00am to 12.30pm

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)

- _____ function removes a set's first and the last element from a list.
 - pop()
 - remove()
 - del()
 - push()
- Python files containing Python definitions and statements are _____.
 - Algorithms
 - Sequences
 - Module
 - None
- Pip stands for _____.
 - Package integrated programs
 - Pip install Packages
 - Preferred Installer program
 - Program Installer package
- _____ is not a keyword in Python language.
 - eval
 - nonlocal
 - pass
 - assert
- Maximum length of a Python identifier is _____.
 - 32
 - No fixed length is specified.
 - 128
 - 16

Q.2. State True/False.

(05)

1. Variable names in Python are case-sensitive
2. Python uses curly braces {} to define code blocks.
3. In Python, comments are written using the # symbol.
4. The return statement in a function is not mandatory
5. Python dictionary maintains the order in which key-value pairs are added

Q.3. Answer the following. (Solve any 5) (10)

1. Define package and module in python.
2. What is slicing in Python? Give example.
3. Why Python is called as high level programming language?
4. What is the __init__ method in Python?
5. What is use of raise statement in Python?
6. What is the Difference between interactive & script mode?

Q. 4. Answer the following in detail. (Solve any 6) (30)

1. Write a Python program to print the largest and smallest number from a list. Accept list from user.
2. Explain try, except and finally with suitable example.
3. Explain with example how to read and write text files in Python.
4. What are tuples in Python? How do they differ from lists?
5. Define set. Explain set operations: union, intersection, difference.
6. Explain functions from math, random, and time modules.
7. Explain key features of python programming.

Q. 5. Answer the following in detail. (Solve any 1) (10)

1. What is key-value pair? Explain steps for creating, initializing and accessing the Elements in a dictionary.
 2. Write a python program to create and insert rows in Employee table (eno, ename, salary) of HR Database using python.
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