

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)/
SPECIALIZATION IN CYBER SECURITY (CS)

EXAMINATION: JUNE - 2025

SEMESTER - V

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

Date : 11/06/2025

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)

1. ----- are identity operators in python.
 - a) Is
 - b) Is not
 - c) both
 - d) None
2. ----- keyword used to rename the module.
 - a) rename
 - b) ren as
 - c) renum
 - d) as
3. OOP model based on concept of -----
 - a) object
 - b) Class
 - c) code
 - d) Data
4. ----- developed Python Programming Language.
 - a) Wick van Rossum
 - b) Rasmus Lerdorf
 - c) Guido van Rossum
 - d) Niene Stom
5. Function used to close the file is -----
 - a) fclose()
 - b) f.close()
 - c) close("myfile.txt")
 - d) none

Q.2. State True/False.

(05)

1. Programming errors often remain undefeated until the program is complied.
2. Python code is only interpreted not complied
3. Class is a core data type in python
4. Python is case sensitive when dealing with identifiers
5. To use a module in another module, you must import it using import keyword.

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

(10)

1. What is the difference between interactive and script mode in python?
2. How will you reverse a list in python?
3. Explain member ship operators in python?

4. How strings are sliced in python?
5. What is set?
6. What is docstring in python?

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

1. Explain mutable and immutable data types with example.
2. What is tuple? How to define and access the elements of tuple. Explain it with code
3. Explain the salient features of Python programming language.
4. List some few common Exceptions types in python and explain when they occur.
5. Explain the steps for database connectivity in python with suitable example
6. Write a few methods that are used in Python Lists
7. How does inheritance work in python? Explain it with an example

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

1. Discuss the different argument passing mechanism in Python with suitable example
 2. What are modules in python? How to create Module? Explain about the import statement in modules.
-