

TILAK MAHARASHTRA VIDYAPEETH, PUNE
BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)(044)/
BACHELOR OF COMPUTER APPLICATIONS (CYBER SECURITY) (464)/
BACHELOR OF SCIENCE(CYBER SECURITY)(760)
EXAMINATION : DECEMBER -2024
SEMESTER - V
Sub: Python (BCA –541-18/BCA-541-20/BCA-CS-541-20)

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.

(05)

- developed python.
 - zim den
 - niene stom
 - Guido rosum
 - none
- Function is called as anonymous function
 - lambda
 - filter
 - map
 - reduce
- keyword is use for function creation.
 - define
 - def
 - fun
 - function
- Python module is a file with the dot(.)----- extension that contains valid python code
 - pym
 - module
 - pymodule
 - py
- function retrieves length of a string
 - len
 - alphabets
 - count
 - none

(05)

1. Classes are created using class keyword.
2. Variable names are case-sensitive.
3. Tuple can have only similar types of argument.
4. Python is written using java language.
5. Python is open source language.

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

1. What is __init__ in python?
2. What is docstring?
3. Explain with example input() function in python.
4. Differentiate between mutable and immutable objects in python.
5. What are identity operators in python?
6. Explain pass statement in python.

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

1. Explain list slicing in python.
2. Define dictionary with example. Differentiate between list and dictionary
3. Write a program to count number of characters in string using for loop.
4. Write the applications of python.
5. Explain with example class and object.
6. What is module in python, how to create module in python.
7. What is deep copy and shallow copy in python?

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

1. Define function, user-defined function and built-in function with example
 2. What is list? Mention any 5 list methods.
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