

Roll No.

Total No. of Pages : 02

Total No. of Questions : 07

BCA/B.Sc. (IT) (Sem.-3)
PROGRAMMING IN PYTHON
Subject Code : UGCA1914
M.Code : 78180

Date of Examination : 19-12-2023

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
2. SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write briefly :

- a) What is the significance of environment variables while installing Python?
- b) Explain the concept of multiple assignments
- c) Explain briefly about scope and lifetime of a variable.
- d) Write various use cases of Python data types
- e) Differentiate between a tuple and a list
- f) Explain anonymous function with the help of an example
- g) What is the difference between a module and a package?
- h) Discuss the concept of 'raising' exceptions in Python and provide an example of how it can be used
- i) What is the purpose of the tell() and seek() methods in file handling?
- j) Explain the concept of garbage collection in Python and its role in managing memory

SECTION-B

2. What are the various features of Python? Discuss various advantages and limitations associated with it along with the applications
3. Discuss Python's native data types. Provide insights into their features and detail methods and operations for manipulating these types
4. What is a function? Explain different ways in which arguments can be passed to a function highlighting the advantage and disadvantage of each
5. Explain the concept of file handling addressing the modes, attributes, encoding, opening and closing of files. Discuss how file pointers can be moved in the files using built-in functions to read/write data from/into files?
6. Explain the benefits associated with the concept of object-oriented programming over procedural language
7. What are control statements? Explain break, continue and pass statements with the aid of an example

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M.Code : 93332
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INSTRUCTIONS TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains SIX questions carrying TEN marks each and students have to attempt any FOUR questions.

SECTION-A

1. Write brief notes on :

- Boolean data type in Python.
- Import command
- Tuple in Python.
- Garbage Collection in Python.
- Recursion
- Anonymous or Lambda functions
- List any 4 applications of Internet.
- Name any 4 built-in functions in Python.
- Write a Python statement to multiply 10 by 8 and print the result.
- Explain the statement

from math import pi

SECTION-B

- List different types of operators in Python with example. (8)
 - What is meant by associativity of operators? (2)
- Give an example and explain the working of decision-making statements in Python.
 - What is the use of break, continue and pass statements?
- Write a note on how to use the following data types in Python:**
 - List
 - Dictionary
 - String
- What is a function in Python? Give an example to show how do you define it
 - Give examples of positional arguments, keyword arguments and default arguments.
 - Give any example of a lambda function.
- How do you create a class? Give an example.
 - Explain the `__init__()` function in Python.
- Discuss the functions for creating and opening a file, reading a file and writing a file in Python.
 - Explain built-in exceptions and user-defined exceptions in Python.

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SECTION-A

1. Write briefly :

- a) Iteration
- b) Pseudo Code
- c) Expression
- d) Define Selection
- e) Length function on strings
- f) Python break statement
- g) Numbers
- h) Intermediate mode and script mode
- i) String upper function
- j) Threads.

SECTION-B

2. Explain call by value and call by reference
3. How to check whether a given number is Armstrong number or not?
4. What is indexing and negative indexing in Tuple?
5. Write a program to convert Celsius to Fahrenheit.
6. What type of conditional structures is present in a programming language? How many of them are supported in Python? Explain with example.
7. Explain in detail about Python Files, its types, functions and operations that can be performed on files with examples.

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