

M.Sc. (Sem.-II) Examination

408

Computer Science

May-2017

[Max. Marks : 70]

Time : 3 Hours]

Paper-408 (Python Programming)

Q-1

- A. 1. What is Python? Describe its features in details. (8)
 2. What is Variable? How to assign value s to Variable? How to assign a single value to several variables simultaneously?

OR

- A. 1. What is Branching Statement in python? Explain Branching Code Flow using if - else – elif with example in Python. (8)
 2. Explain with example : Nested if, else and elif in Python.

- B. What is Control Structure in programming language? Describe for loop with syntax and example in Python. (4)

OR

- B. List out Operators in Python? Explain Assignment Operators with example. (4)

- C. Explain Python Comparison Operators. (2)

Q-2

- A. What is Function in Python? How to declare and call function in Python? What is default arguments in function? (7)

OR

- A. Describe the following keywords with proper syntax or example : Modules, Search Path , import statement, from...import (7)

- B. Describe Recursion Function with example in Python. (5)

OR

- B. Describe Access Modes for File Objects in Python. (5)

- C. Explain globals() and locals() Functions in Python. (2)

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Q-3

A. What is Escape Character in Python? Explain any six Escape Character with its description. (8)

B. What is Python List? How to accessing values in List? How to delete List elements? (4)

OR

B. Explain the following List functions :
cmp(list1, list2), len(list), max(list), min(list), list(seq) (4)

C. What is Python Dictionary? How to accessing values in Dictionary? (2)

Q-4

A. What is Class? How to create Class in Python? Explain Built-in Class Attribute in Python. (6)

OR

A. Describe Inheritance with example in Python. (6)

B. Explain Selection sort with example. (6)

OR

B. Explain Merge sort with example. (6)

C. What is Binary Search in Python? (2)

Q-5

A. What is Exception? How to handle an Exception? Explain with example. (6)

OR

A. What is Assertion in Python? Describe the Assert statement in Python. (6)

B. What is Regular Expression Operation in Python? Explain any five special characters. (6)

OR

B. Describe these keywords : Black Box Testing, Glass Box Testing, Encryption and Decryption (6)

C. Describe Cryptography. (2)
