



RZ-003-1036003

Seat No. _____

B. C. A. (Sem. VI) (CBCS) (W.E.F. 2016) Examination

March - 2019

CS - 33 : Programming in Python

Faculty Code : 003

Subject Code : 1036003

Time : $2\frac{1}{2}$ Hours]

[Total Marks : 70

1 (A) Fill in the blanks : 4

(1) Python commands are evaluated / executed in _____

(2) The _____ symbol is a shell prompt in Python.

(3) The _____ symbol is to set comments in Python.

(4) IDLE stands for _____

(B) Answer in Brief : (Any One) 2

(1) Explain TUPLE data type in Python

(2) Explain LIST data type in Python

(C) Answer in Detail : (Any One) 3

(1) Explain Branching statements in Python

(2) Explain Iteration statements in Python

(D) Write a note : (Any One) 5

(1) Explain Function and Scoping in Python

(2) Explain Modules in Python with example

- 2** (A) Fill in the blanks : **4**
- (1) _____ exception catches all exceptions in Python.
 - (2) _____ statement forces exception to occur in Python.
 - (3) ELSE keyword is used in Exception Handling in Python (TRUE / FALSE).
 - (4) ADT stands for _____
- (B) Answer in Brief : (Any One) **2**
- (1) Explain Assertion in Python.
 - (2) Explain Handling Exceptions in Python
- (C) Answer in Detail : (Any One) **3**
- (1) Explain Inheritance in Python.
 - (2) Explain Encapsulation and Information Hiding in Python.
- (D) Write a note : (Any One) **5**
- (1) Explain Search Algorithms in Python with example
 - (2) Explain Sorting Algorithms in Python with example
- 3** (A) Fill in the blanks : **4**
- (1) PyLab provides many of the facilities of _____
 - (2) _____ method displays the graphical window on the computer screen.
 - (3) When stores PyLab Figure, Default extension _____
 - (4) _____ is a Python module that provides tools for scientific computing.

- (B) Answer in Brief : (Any One) 2
- (1) What is Memorization?
 - (2) Explain pylab.title, pylab.xlabel and pylab.ylabel
- (C) Answer in Detail : (Any One) 3
- (1) Explain Fibonacci sequence.
 - (2) Explain Divide and Conquer algorithm.
- (D) Write a note : (Any One) 5
- (1) Explain Plotting Mortgages.
 - (2) Explain the 0/1 Knapsack Problem
- 4 (A) Fill in the blanks : 4
- (1) In Python, regular expressions are supported by the _____ module.
 - (2) A _____ is a sequence of characters that forms a search pattern.
 - (3) JSON stands for _____
 - (4) If there is no match, _____ will be returned, instead of the Match Object.
- (B) Answer in Brief : (Any One) 2
- (1) Explain json. loads (object).
 - (2) Explain json. dumps (object)
- (C) Answer in Detail : (Any One) 3
- (1) Differentiate search () VS findall () in Python.
 - (2) Explain split () and sub () function in Python
- (D) Write a note with example : (Any One) 5
- (1) Explain ElementTree with XML in Python
 - (2) Explain Match Object with its property and methods.

- 5 (A) Fill in the blanks : 4
- (1) Attributes to use for making prediction is called _____
 - (2) MSE stands for _____
 - (3) MAE stands for _____
 - (4) ROC Stands for _____
- (B) Answer in Brief : (Any One) 2
- (1) What is Predictive Modeling?
 - (2) List the variables used for predictions in Data Analytics in Python.
- (C) Answer in Detail : (Any One) 3
- (1) Explain Training Data in Data Analytics in Python.
 - (2) Explain Simple and Complex Problem in Predictive Model Building in Python.
- (D) Write a note : (Any One) 5
- (1) Explain Predictive Model Building stages.
 - (2) Explain Assessing Performance of Predictive Models
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