



DO-003-1036003

Seat No. _____

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

March – 2022

CS-33 : Programming In Python

Faculty Code : 003

Subject Code : 1036003

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

[Total Marks : **70**

- 1 (A) Attempt the following objective Question : 4
- (1) Who developed Python Programming Language?
 - (2) What is the output of `type(5)`?
 - (3) An 'if' condition inside another 'if' is called _____
 - (4) IDLE stands for _____
- (B) Answer in brief : (Any One) 2
- (1) What is List?
 - (2) What is Modules?
- (C) Answer in brief : (Any One) 3
- (1) What is Recursion? Explain with Example.
 - (2) What is Dictionaries? Explain with Example.
- (D) Write note on following : (Any One) 5
- (1) What is Iteration? Explain with suitable example
 - (2) What is a Branching program? Explain with suitable example

- 2 (A) Attempt the following objective Question : 4
- (1) When a child class inherits from only **One** parent class it is called?
 - (2) What kind of relationship exists between inherited class and base class?
 - (3) Partition and exchange sort is _____
 - (4) The Average case occurs in the linear search algorithm _____
- (B) Answer in brief : (Any One) 2
- (1) What is an exception handling?
 - (2) What is Assertions?
- (C) Answer in brief : (Any One) 3
- (1) What is Encapsulation? Explain with example.
 - (2) What is Abstract Classes? Explain with example.
- (D) Write note on following : (Any One) 5
- (1) What is a Hash table? Explain with suitable example.
 - (2) What is Inheritance? Explain with suitable example.
- 3 (A) Attempt the following objective Question : 4
- (1) Which Python package is used for 2D graphics?
 - (2) Which function creates a boxplot?
 - (3) Which function is used to show legends?
 - (4) Which function is used to create a histogram?

- (B) Answer in brief : (Any One) 2
- (1) What are the Different types of Mortgage.
 - (2) Explain various methods used to Plot graph in Python
- (C) Answer in brief : (Any One) 3
- (1) What is plotting mortgages and extended examples?
 - (2) What is Fibonacci sequence revisited? Explain it.
- (D) Write note on following : (Any One) 5
- (1) Explain the 0/1 Knapsack algorithm with suitable example
 - (2) Explain Dynamic programming and divide and conquer with suitable example
- 4 (A) Attempt the following objective Question : 4
- (1) Which module in Python supports regular expressions?
 - (2) What does the function re.match do?
 - (3) What does the function re.search do?
 - (4) Which functions creates a Python object?
- (B) Answer in brief : (Any One) 2
- (1) What is JSON?
 - (2) Write a program to read and write a data in CSV file
- (C) Answer in brief : (Any One) 3
- (1) What is Comma Separated Value? Explain with Example
 - (2) Write a Program to generate HTML Document

- (D) Write note on following : (Any One) 5
- (1) Explain types of regular Expression with example
 - (2) Write a program to read and write a Xml file in detail
- 5 (A) Attempt the following objective Question : 4
- (1) Full for of AUC _____
 - (2) Full for of MSE _____
 - (3) Full for of ROC _____
 - (4) Full for of MAE _____
- (B) Answer in brief : (Any One) 2
- (1) Explain regression Problem with Example
 - (2) Explain Simple and Complex Problem with example
- (C) Answer in brief : (Any One) 3
- (1) Explain Multicast Classification Problem with example
 - (2) Explain Types of Function Approximation Problem with example
- (D) Write note on following : (Any One) 5
- (1) Explain Binary Classification Problem with example
 - (2) Explain Balancing Performance with Example
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