

B.C.A Semester - 6 (CBCS) Examination**March/April -2019****CS-33 PROGRAMMING IN PYTHON(CORE)****Time: 2:30 Hours****Marks: 70****Instructions:**

1. All questions are compulsory.
 2. Figures to the right indicate marks.
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- Q=1(a) Answer the following question** **4 Marks**
1. _____ Brackets is used for list data type.
 2. _____ Object cannot be modifying at runtime.
 3. What is Mutable Object?
 4. What is Specifications?
- Q=1(b) Attempt any one** **2 Marks**
1. Define: Input with Example.
 2. Explain Function as Object with Example.
- Q=1(c) Attempt any one** **3 Marks**
1. Explain Iteration statement in python.
 2. Explain Recursion with Example.
- Q=1(d) Attempt any one** **5 Marks**
1. Explain Data type in python.
 2. Write a program to write and read a data to a file using file module in python.
- Q=2(a) Answer the following question** **4 Marks**
1. What is Encapsulation in Python?
 2. Which Type of Exception is raised when key is not found in the dictionary?
 3. Which keyword is used to handle the exception in python?
 4. Which keyword is used to write the assertions statement in python?
- Q=2(b) Attempt any one** **2 Marks**
1. Explain Assertions with Example.
 2. Explain Abstract data type with suitable Example.
- Q=2(c) Attempt any one** **3 Marks**
1. Explain Inheritance with suitable Example.
 2. Explain Hashtables with suitable Example.
- Q=2(d) Attempt any one** **5 Marks**
1. Explain Sequential Search with suitable Example.
 2. What is Exception? Explain it with suitable Example.
- Q=3(a) Answer the following question** **4 Marks**
1. _____ function is used to store the chart figure as image in your directory.
 2. _____ method is used to display the plotting point.
 3. _____ package is used for simple plotting.
 4. _____ package is used for calculate mortgages.
- Q=3(b) Attempt any one** **2 Marks**
1. Explain pylab with suitable example.
 2. Explain title(), xlabel() and ylabel() method with Example.
- Q=3(c) Attempt any one** **3 Marks**
1. Explain Fibonacci sequence revisited with Example.
 2. Explain Divide and Conquer in dynamic programming.
- Q=3(d) Attempt any one** **5 Marks**
1. Explain Knapsack 0/1 problem with Example.

2 What is Mortgage? Write a code to calculate Mortgage with Fixed Rate.

- Q=4(a) Answer the following question** **4 Marks**
- 1 _____ Sequence character is used to check the digit from the given string.
 - 2 Numeric value 30 is used for _____ type of Logger Level
 - 3 _____ Method is used to convert data from json string to python object.
 - 4 _____ Package is used for RegEx Module.
- Q=4(b) Attempt any one** **2 Marks**
- 1 Explain search function with suitable Example.
 - 2 Explain match function with suitable Example.
- Q=4(c) Attempt any one** **3 Marks**
- 1 What is JSON? Explain with suitable Example.
 - 2 What is Logging? Explain any 5 object of Logger.
- Q=4(d) Attempt any one** **5 Marks**
- 1 Explain to minidom and ElementTree module for xml file in python
 - 2 Write a program to modifying the xml file.
- Q=5(a) Answer the following question** **4 Marks**
- 1 What is BigData?
 - 2 _____ Package is used to read or write the csv file.
 - 3 Which method is used to derive the numeric field data from csv file?
 - 4 What is Predictive Model?
- Q=5(b) Attempt any one** **2 Marks**
- 1 Explain complexity in python.
 - 2 Write a program to read the csv file.
- Q=5(c) Attempt any one** **3 Marks**
- 1 Explain Balancing Performance with suitable example.
 - 2 Write a code for derived top 10 records for the analytics from the csv file.
- Q=5(d) Attempt any one** **5 Marks**
- 1 Explain Data Analytics and Data Exploration with suitable Example.
 - 2 Write a code to create predictive model for exam.csv file.