

B.C.A Semester - 6 (CBCS) Examination**Oct/Nov-2020****CS-33 PROGRAMMING IN PYTHON (CORE)****Time: 2:00 Hours****Marks: 56****Instructions:**

1. Figure to the right indicate marks.
 2. There are five questions in the question paper.
 3. Answer any four of the following questions.
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- Q.1(A) Answer the following question. (04)
1. _____ Value is given to more optimized dictionary data type.
 2. _____ Object cannot be modifying at runtime.
 3. Give the list of immutable object in Python.
 4. What is Specifications?
- Q.1(B) Attempt any one (02)
1. Define: Global Variable with Example.
 2. Explain Function as Object with Example.
- Q.1(C) Attempt any one (03)
1. Explain Branching statement in python.
 2. Explain Recursion with Example.
- Q.1(D) Attempt any one. (05)
1. Write a program to write and read a data to first.txt file using file module in Python.
 2. Explain Data type in Python.
- Q.2(A) Answer the following question (04)
1. Which keyword is used to handle the exception in Python?
 2. Which type of Exception is raised when key is not found in the dictionary?
 3. What is Encapsulation in Python?
 4. Which keyword is used to write the assertions statement in Python?
- Q.2(B) Attempt any one (02)
1. Explain Abstract data type with Example.
 2. Explain Assertions with suitable Example.
- Q.2(C) Attempt any one (03)
1. Explain Inheritance with suitable Example.
 2. Explain Sequential Search with suitable Example.
- Q.2(D) Attempt any one (05)
1. Explain Hashtables with suitable Example.
 2. Write a program for Quick Sort.
- Q.3(A) Answer the following question (04)
1. _____ Package is used for calculate mortgages.
 2. _____ Package is used for simple plotting.
 3. _____ Function is used to store the chart figure as image in your directory.
 4. _____ Method is used to display the plotting point.

- Q.3(B) Attempt any one (02)
1. Explain pylab with suitable example.
 2. Explain title(), xlabel() and ylabel() method with Example.
- Q.3(C) Attempt any one. (03)
1. What is Mortgages? Write a program to calculate mortgage with teaser rate.
 2. Explain Divide and Conquer in dynamic programming.
- Q.3(D) Attempt any one (05)
1. Explain Knapsack 0/1 problem with Example.
 2. Explain Fibonacci sequence revisited with Example.
- Q.4(A) Answer the following questions. (04)
1. _____ Sequence character is used to check the digit from the given string.
 2. Numeric value 0 is used for _____ type of Logger Level.
 3. _____ Method is used to convert data from json string to python object.
 4. Write a code for search a string which start with student and end with exam.
- Q.4(B) Attempt any one (02)
1. Explain findall function with suitable Example.
 2. Explain split function with suitable Example.
- Q.4(C) Attempt any one (03)
1. What is JSON? Explain with suitable Example.
 2. Explain to minidom and Element Tree module for xml file in python.
- Q.4(D) Attempt any one (05)
1. What is Logging? Explain any 5 object of Logger.
 2. Write a program to modifying the xml file. (File name demo.xml).
- Q.5(A) Answer the following question (04)
1. What is Big Data?
 2. _____ Package is used to read or write the .csv file.
 3. Which method is used to derive the numeric field from .csv file?
 4. What is Predictive Model?
- Q.5(B) Attempt any one (02)
1. Write a program to read the .csv file.
 2. Explain complexity in Python.
- Q.5(C) Attempt any one (03)
1. Explain Data Analytics and Data Exploration with suitable Example.
 2. Write a code to create predictive model for exam.csv file.
- Q.5(D) Attempt any one (05)
1. Explain Balancing Performance with suitable example.
 2. Write a code for derived top 10 records for the analytics from the .csv file
