

B.C.A Semester - 6 (CBCS) Examination
April/May-2022 (OLD COURSE)
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 questions** (04)
1. Full form of IDLE.
 2. What is the use of triple (“”) quotes?
 3. Which keyword is used to create user defined function in python?
 4. The_____ Symbol is a shell prompt in python.
- Q.1(B) **Answer the following questions (ANY ONE)** (02)
1. Explain Tuple data type in Python.
 2. Explain split () method with example.
- Q.1(C) **Answer the following questions (ANY ONE)** (03)
1. Explain Recursion with example.
 2. Explain Iteration Statements in Python.
- Q.1(D) **Answer the following questions (ANY ONE)** (05)
1. Explain List in detail with example.
 2. Explain Dictionary in detail with example.
- Q.2(A) **Answer the following questions** (04)
1. What is abstract class?
 2. What is inner class?
 3. What is assertion?
 4. ADT Full form.
- Q.2(B) **Answer the following questions (ANY ONE)** (02)
1. Explain Exception handling in brief.
 2. Explain polymorphism in brief.
- Q.2(C) **Answer the following questions (ANY ONE)** (03)
1. Explain Inheritance in Python.
 2. Explain information hiding in detail.
- Q.2(D) **Answer the following questions (ANY ONE)** (05)
1. What is class? How to create it? Explain with example.
 2. Explain any one sorting algorithm in Python.
- Q.3(A) **Answer the following questions** (04)
1. What is Pylab?
 2. What is Line Plot?
 3. What is Sub-Plots?
 4. Define legend () in plots.
- Q.3(B) **Answer the following questions (ANY ONE)** (02)
1. Explain Histogram.
 2. Explain Pieplot.
- Q.3(C) **Answer the following questions (ANY ONE)** (03)
1. Explain plot(),title(),show() with example.
 2. Explain Divide and Conquer algorithm

- Q.3(D) **Answer the following questions (ANY ONE)** (05)
1. Explain Mortgage with an example.
 2. Explain the 0/1 Knapsack Algorithm with an example.
- Q.4(A) **Answer the following questions** (04)
1. Full form of RE.
 2. Full form of CSV.
 3. Full form of DOM.
 4. What is Python XML Parser?
- Q.4(B) **Answer the following questions (ANY ONE)** (02)
1. Explain the group()
 2. What is Regular Expression?
- Q.4(C) **Answer the following questions (ANY ONE)** (03)
1. Explain the findall () with an appropriate example.
 2. Explain the sub () with an appropriate example.
- Q.4(D) **Answer the following questions (ANY ONE)** (05)
1. List out & explain the Regular Expression Modifiers.
 2. Create a Python script to convert python dictionary object into JSON string.
- Q.5(A) **Answer the following questions** (04)
1. What is Data Frame?
 2. What is Data Set?
 3. What is Regression problem?
 4. MSE full form.
- Q.5(B) **Answer the following questions (ANY ONE)** (02)
1. What is Predictive model?
 2. What is Complexity?
- Q.5 (C) **Answer the following questions (ANY ONE)** (03)
1. Explain Big Data.
 2. Explain Linear & Non-linear Algorithm.
- Q.5(D) **Answer the following questions (ANY ONE)** (05)
1. Characteristics of the Rocks versus Mines Data Set.
 2. Difference between a Simple Problem and a Complex Problem
