

B.C.A Semester - 6 (CBCS) Examination
May/June-2021 (OLD COURSE)
CS-33 PROGRAMMING IN PYTHON(CORE)

Time: 1:30 Hours**Marks: 42****Instructions:**

1. Figures to the right indicate marks.
2. There are five questions in the question paper.
3. Answer any three of the following questions.

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- Q.1(A) Attempt following questions. (04)
1. _____ brackets is used for dictionary data type.
 2. A=1,2,3, then A object is identified with _____ type in Python.
 3. The _____ symbol is used to set comment in Python.
 4. Which Python object store element value with key : value pair?
- Q.1(B) Attempt following. (Attempt any one) (02)
1. What is Mutable Object?
 2. Explain range() function with an example.
- Q.1(C) Attempt following. (Attempt any one) (03)
1. Explain for iteration control with an example.
 2. Explain while iteration control with an example.
- Q.1(D) Attempt following. (Attempt any one) (05)
1. Explain function and scoping in Python.
 2. Explain Modules in Python with an example.
- Q.2(A) Attempt following questions. (04)
1. _____ keyword is used to write the assertions statement in Python.
 2. __a=20 then this variable is a _____ variable of a class.
 3. def __init__() is a _____ of the class.
 4. def __del__() is a _____ of the class.
- Q.2 (B) Attempt following. (Attempt any one) (02)
1. What is Encapsulation in Python?
 2. What is Class in Python?
- Q.2 (C) Attempt following. (Attempt any one) (03)
1. Explain User Define Exception with suitable example..
 2. What is HashTable? How it is implemented in Python? Explain with example.
- Q.2(D) Attempt following. (Attempt any one) (05)
1. What is Exception? Explain exceptions as a control flow mechanism with example.
 2. Explain types of Inheritance available in Python.
- Q.3(A) Attempt following questions. (04)
1. pylab is a module of _____ in Python.
 2. _____ function is used to save a plot in python.
 3. To display plot on screen then we use _____ function of pyplot.
 4. _____ method is used to define plotting point in Python.
- Q.3 (B) Attempt following. (Attempt any one) (02)
1. Explain plot(), xlim() method with example.
 2. Explain title(), xlabel() method with example.

- Q.3 (C) Attempt following. (Attempt any one) (03)
1. Explain divide and conquer algorithms.
 2. Explain Fibonacci sequence.
- Q.3(D) Attempt following. (Attempt any one) (05)
1. What is Mortgage? Write a code to calculate fixed rate mortgage with points.
 2. Explain 0/1 Knapsack problem with example.
- Q.4(A) Attempt following questions. (04)
1. _____ sequence character matches any whitespace character.
 2. _____ sequence character matches any alphanumeric character.
 3. JSON stands for _____.
 4. Numeric value 40 is used for _____ type of Logger Level.
- Q.4(B) Attempt following. (Attempt any one) (02)
1. Explain json.loads() method with example.
 2. What is CSV file?
- Q.4 (C) Attempt following. (Attempt any one) (03)
1. Differentiate match() V/S search().
 2. How to load Python data in JSON format? Explain with an example.
- Q.4(D) Attempt following. (Attempt any one) [5] (05)
1. Explain HTMLParser with suitable example.
 2. Explain levels of log message available in Logging.
- Q.5(A) Attempt following questions. (04)
1. MSE stands for _____.
 2. MAE stands for _____.
 3. what is BigData?
 4. _____ package is used to read or write the csv file.
- Q.5 (B) Attempt following. (Attempt any one) (02)
1. write a program to read the csv file?
 2. What is Predictive Model?
- Q.5 (C) Attempt following. (Attempt any one) (03)
1. Explain simple and complex problem in Predictive Model in Python.
 2. Explain Balancing Performance with suitable example.
- Q.5(D) Attempt following. (Attempt any one) (05)
1. Explain Predictive Model Building steps.
 2. Explain Data Analytics and Data Exploration with suitable example.
