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**Q1. What do you understand by Fibonacci numbers?(CO3)**

Ans. The Fibonacci numbers are the numbers in the following integer sequence.

0, 1, 1, 2, 3, 5, 8, 13, 21, 34, 55, 89, 144, ……..

**Q2. How recurrence relation of Fibonacci Series can be defined?(CO3)**

Ans. *Fn = Fn-1 + Fn-2  with seed values   F0 = 0 and F1 = 1.*

**Q1. What does built-in function help do in context of classes?(CO4)**

Ans. Determines class description of any built-in type.

**Q2. What does built-in function type do in context of classes?(CO4)**

Ans. Determines the class name of any value.

**Q3.What is object class?(CO4)**

Ans.Like Java Object class, in Python (from version 3.x), object is root of all classes.

In Python 3.x, “class Test(object)” and “class Test” are same.

**Q1. What is the biggest reason for the use of polymorphism??(CO4)**

Ans. The program will have a more elegant design, and will be easier to maintain and update.

**Q2. A class in which one or more methods are only implemented to raise an exception is called?(CO4)**

Ans. is called an abstract class.

**Q3. What do you mean by overriding?(CO4)**

Ans. Overriding means if there are two same methods present in the superclass and the subclass, the contents of the subclass method are executed.

**Q1.What command is used to open a file “c:\temp.txt” in read-mode only?(CO5)**

Ans. infile = open(“c:\\temp.txt”, “r”).

**Q2. Which commands can be used to read “n” number of characters from a file using the file object <file>?(CO5)**

Ans. file.read(n).

**Q3. Which command can be used to read the entire contents of a file as a string using the file object <tmpfile>?((CO5))**

Ans. tmpfile.read()

**Q4. Which command can be used to read the next line in a file using the file object <tmpfile>?(CO5)**

Ans. tmpfile.readline().