

**1 Answer All**

- a Explain pass in Python with suitable example. 1
- b What is difference between / and // in Python? Explain with example. 1
- c How to keep a single element in tuple? Represent through example. 1
- d Write a python script to swap the following two tuples: 1  
tuple1 = (111, 222)  
tuple2 = (999, 888)
- e Differentiate between class variable and instance variable. 1
- f What is the importance of *init* method in python? 1
- g What is the use of raise keyword in exception handling. Explain through example. 1
- h Differentiate between *fetchone()* and *fetchall()*. Explain through example. 1
- i Write any three modes of opening of files. 1
- j What is the importance of *mainloop* method in the *root* window of tkinter? 1

**2 Answer any Five**

- a Write a python program to enter few numbers by the user and then display the count of positive, negative and zeros entered. 3
- b Given a list of numbers, write a python script to iterate and print only those numbers which are divisible by 5 and 7. 3
- c Explain method overloading in python using an example. 3
- d What is the use of super keyword in inheritance. Explain with example. 3
- e Write a program to read and print the content of a file. 3
- f Write a program to create an arc on canvas. 3

**3 Answer any One**

- a Find the GCD and LCM of two numbers. 7
- b WAP to take input for seconds. Convert it into its corresponding hour, minute and second. 7

#### 4 Answer any One

- a Print the following pattern. e.g. If range is 5 then pattern will look like

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```
  A
 A B
A B C
A B C D
A B C D E
```

- b Write a program that keeps student's name and his marks in a dictionary as key-value pairs. The program should store records of 10 students and display students name and marks of five students in decreasing order of marks obtained.

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#### 5 Answer any One

- a Create an abstract class Shape with input(), area(), displa() abstract methods. Define child classes Square, Triangle and Rectangle. Use required variables to implement the same.
- b Explain different types of inheritance in python with example.

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#### 6 Answer any One

- a Write a program to enter the age of any person/lady. If the age is less than 18 then throw an exception else allow for voting.
- b Write a program to copy the content of one file to another file.

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#### 7 Answer any One

- a Write a program to create shapes like polygon, square and oval on canvas. Display your name on canvas.
- b What is regular expression? Explain the working principle of match object with all its methods. Explain with suitable examples.

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