JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST-3 EXAMINATION-2022

B.Tech-III Semester (CSE&IT)

COURSE CODE (CREDITS): 18B11CI314 (3)

print("Input file not found")

MAX, MARKS: 35

COURSE NAME: PYTHON PROGRAMMING ESSENTIALS

COURSE INSTRUCTORS: Jagpreet, Aman, Naveen, Nishant

MAX. TIME: 2 Hours

Note: All questions are compulsory. Marks are indicated against each question in square brackets.

```
\overline{Q} 1.
  Find the output of following python
                                                                                   [5 marks]
  code:
                                                                                   [CO 1-5]
                                     (d)
 (a)
                                      class Demos
   def foo(x);
                                         def __init__(self):
      x[0] = ['def']
                                           self.a = 1
      x[1] = ['abc']
                                           self._b = 1
       return id(x)
                                         def get(self):
                                           return self. b
   q = ['abc', 'def']
                                     obj = Demo()
   print(id(q) == foo(q))
                                     obj.a=45
 (b)
                                     print(obj.a)
   class A:
       def __init__(self):
                                    (e)
         self.__i = 1
          self.j = 5
       def display(self):
                                                 operate(ent)
          print(self,_i, self.j)
   class B(A):
                                                 def _init_(self);
         super().__init__()
                                                Address to the state
          self._1 5 2
                                                   pishe ((4))
          self.j = 7
   c + B()
 c.display()
(c)
 a=False
 while not a:
        f_n = input("Enter file name")
     1_f = open(f_n, 'r')
```

What is GUI Programming in python? Discuss about TK interface in python? Write a Q 2. [1+1+3=5 python code to create the below form with all functionalities of "submit button"? Marksl [CO-6]

			- 0 x
	Name	Reg.No	
	RollNo		
	Srl.No Subject Gra	de Sub Credit Credit obtained	
	1 C5201		
	2 CS 202 3 MA 201		
	4 EC 201		
و قاد سد		Total credit	
Submit		APA	
Submit_ "Button"			
rucii Dii			

Write a Python GUI program to create a Scrolled Text widgets using tkinter module? Q 3. What are widgets in python and discuss both the widgets and their integration steps?

Marks [CO-6]

[2+3=5]

Write a short note on File Handling in python? Given strings in a file "juit.txt", write a Q 4. python program to check if the strings are valid email address or not. An email is a [2+3=5]string (a subset of ASCII characters) separated into two parts by @ symbol, a Marks "personal_info" and a domain, that is personal_info@domain. Also find and save [CO-4] personal_info and domain as output in "person.txt" and "domain.txt" files.

(a) What do you mean by method overriding in python? Write python programs to Q 5. [2,3 Marks] override __getitem__(), __set__() methods and in operator. [CO-2,3]

(b) Given the Coordinates (x, y) of a center of a Circle and its radius, write Python program to determine whether the point lies inside the Circle, on the Circle or outside the Circle.

Write a python program to check a password as a combination of alphanumeric Q 6. characters along with special characters, and checking whether the password is valid or [5 Marks) not with the help of conditions. Primary conditions for password validation: [CO-4]

Minimum 8 characters.

The alphabet must be between [a-z]

At least one alphabet should be of Upper Case [A-Z]

At least 1 number or digit between [0-9].

At least 1 character from [_ or @ or \$].

(a) Write a short note on Python Errors and Built-in Exceptions? Write a code to Q 7. demonstrate the concept of creating a Python Custom Exception and Raise the [2 Marks] [CO-4]

(b) Consider a line "IP Address 192.16.72.6/24 login Sat Oct 23 09:14:16 2021" in [3 Marks] the file "log.txt". Write a Python code to read the file and extract IP address from the lines starting from the word "IP Address" and save extracted data in "login.txt".