I I	Enrolment No: Department/ School:	Name of Student:	
		RM EXAMINATION ODD SEMESTER 202	22-23
	COURSE CODE: CSET10 COURSE TITLE COURSE CREDIT		ATION 2 HRS
G	ENERAL INSTRUCT	IONS: -	
	ucpar inichoschool.	ng on the question paper except name, enter non-perminence of UFM.	
		QUESTIONS	
Wri	Given a dictionary dict1 te down single line codes for follogical	= {1: "Python", 2: "Java", 3: "Ruby", owing scenarios:	4:"Scala"} (1 Mark)
	• a. Add a new pair (5:	C++) to the dictionary.	
	b. Removes the last in	serted key-value pair	
	2) Consider a List, List1 = [0,2,	4,6,8,10]. Write down single line codes for following so	cenarios:
	a. Access Last Elemen	nt of the List	(1 Mark)
	b. Reverse a List using	g Slicing and Indexing (Using Loops and reverse function	on not allowed)
		numbers in different lines. Modify the code to print all	
	<pre>nums = [2, 4, 6, 8, for i in nums: print(i)</pre>	10, 12]	
	Output:		
	2		
	6		
	10		
	12		
	Expected Output: 2, 4, 6, 8,	10,12	
V 4)	Determine the output for the for $x = ((0.0, 1.0, 2.0), y = x[0][1]$		(1 Mark)
	print(y)		
* 5)	Determine the output for the fo	llowing code: or 5) & (7>7) and (2>-1)))	(2 Marks)

(3 Mark)

Determine and explain the output of the following codes. Explain the following codes. (2 Marks) "{0:b}".format(45) "{0:.2f}".format(345.7916732) (2 Marks) 7) Determine the output for the following code: def fn(x): try: print(a/b) except TypeError: print("Unsupported operation") except ZeroDivisionError: print("Division by zero not allowed") fn(0) (8) Determine the output for the following code. In case it generates any error, explain why? (2 Marks) dictionary = {'GFG': 'geeksforgeeks.org', 'google': 'google.com', 'facebook': 'facebook.com' } del dictionary['google'] for key, values in dictionary.items(): print(key) dictionary.clear() for key, values in dictionary.items(): print(key) del dictionary for key, values in dictionary.items(): print(key) 9) Differentiate Public, private and Protected access. Explain which type of access attribute is declared here: (3 Marks) class Medicine: def __init__(self, salt, expiry): self.__salt = salt self.__expiry = expiry 4 10) Explain in brief the concept of pass by value and return a value in a function with an example. (3 Marks) 11) Define Implicit and Explicit Conversions in python? Convert the following and mention the conversion type: (3 Marks) a) 3/1.5b) x=10print(float(x)) str(x) 12) Determine the output for the following code: (3 Marks) x = 1while x < 4: x += 1y = 1while y < 3: print(y, end=' ')

y += 1

13) Determine the output for the following code:

```
def function 2(n, tot):
    if n == 0:
        return False
    else:
        return function 1(n-2, tot-2)

def function 1(n, n1= None):
    if n == 0:
        return True
    else:
        return n*function_1(n - 1)

print(function_2(2,4))
```

14) Write a function that accepts a list as an argument and returns True/False depending on if elements of a list are same when read from front and back.
(3 Marks)

For Example,

For list [2,3,15,15,3,2], the function should return True. For List [3,6,9,1,9,6,3], the function should return true. For List [2,3,4,5,3,2], the function should return False.

15) Complete the code for following scenarios:

(10 Marks)

- A. Create a class called User. Create four attributes called name, email id and contact number. Default values of email is <u>hello@gmail.com</u>. Create a class attribute organization with value "Meta". This attribute should be same for all instances.
 (1 Mark)
- B. Create a method called describe_user() that prints a summary of the user's information in following format (Consider this as an example):

User's Profile: Name: Rohan Kapoor Email: rohan@gmail.com Contact: 9876543210

Make another method called greet_user() that prints a personalized greeting to the user.

For Example:

Hello Rohan Kapoor! Welcome to our Community!

(2 Marks)

C. Create 2 instances of User class, user1 and user2, for which describe_user() should print following output:

(1 Mark)

User's Profile: Name: Rohan Kapoor Email: rohan@gmail.com Contact: 9876543210

User's Profile: Name: Ahmed Ali Email: hello@gmail.e

Email: hello@gmail.com Contact: 9876543211

- D. Add a protected attribute called login_attempts to your User class. Write a method called increment_login_attempts() that increments the value of login_attempts by 1. Write another method called reset_login_attempts() that resets the value of login_attempts to 0.
 (2 Marks)
- E. Create another class Privilige. This class has one private attribute priviliges, that stores a list of priviliges: "Can Add Post", "Can Delete Post", "Can Ban User". The method show_priviliges () displays the administrator's set of privileges like:

Administrator's set of Priviliges: Can Add Post Can Delete Post Can Ban User

- F. An editor is a user that can edit the posts. Create a class called Editor that inherits the user class. It should have an additional attribute called role with default value "Editing the Posts".

 A moderator is a user that reviews the posts posted by different users. Create a class called Moderator that inherits the user class. It should have an additional attribute called role with default value "Reviewing the Posts".
- G. An administrator is a special kind of user. Write a class called Admin that inherits the Editor and Moderator class written previously. Make a Privileges instance as an attribute in the Admin class. When an object of admin class is created and the role needs to be printed, the output should be:
 Reviewing the Posts.
 (2 Marks)

Create an object of Admin class, with name, email, contact as "Jairaj", jairaj@gmail.com, "9654178277".

Complete the spaces in the Code:

class User():	
#Initialize name, email, profession and def		ber
def describe_user(
def greet_user():	
def increment_login_attempts();
def reset_ login_attempts(
Class Privilige():	
#Initialize Priviliges def		
def show_priviliges():
Class Editor():
Class Moderator():
Class Admin(
user1 = user2 = user1.describe_user() user1.greet_user() admin1 =		
print(admin1.role)		