SRM Institute of Science and Technology
College of Engineering and Technology
School of Computing
Department of Computing Technologies
SRM Nagar, Kattankulathur – 603203, Chengalpattu District, Tamilnadu
Academic Year: 2022-23 (EVEN)

SET B

Test: CLA-T1 **Date: 15-02-2023**
Course Code & Title:18CSE207J advanced programming practice **Duration:** 1Hour.
Year & Sem: II Year / IV Sem **Max. Marks:** 25

Course Articulation Matrix:

S.No.	Course Outcome	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12
1	CO1	H		H		H							

Part - A
(5 x 1 = 5 Marks)
Instructions: Answer all

Q. No	Question	Marks	BL	CO	PO	P.I
1	What is the output for below code a="welcome to \"APP \" lecture" print(a) a. welcome to "APP" lecture b. error c. welcome to APP d. welcome to APP lecture	1	1	1	1	1.3.1
2	What is the output for below code x= {i:i+2 for i in range(5)} print(x) print(type (x)) a.{0: 2, 1: 3, 2: 4, 3: 5, 4: 6} b. {0: 1, 1: 2, 3: 4, 4: 5, } <class 'dict'> <class 'set'> c. {0: 1, 1: 2, 3: 4, 4: 5, } d.{0: 2, 1: 4 } <class 'dict'> <class 'dict'>	1	2	1	1	1.1.1
3	Is python code is compiled or interpreted? a. Python code is both compiled and interpreted b. Python code is neither compiled nor interpreted c. Python code is only compiled d. Python code is only interpreted	1	2	1	1	1.1.1
4	Which of the below on is not a python data types a. Set data types b. mapping data types c. sequence data types d. indexed data types	1	1	1	1	1.1.1
5	What is the output for below code i= 1 while True: ->if i%3 == 0: ->->break: -> print(i)	1	1	1	1	1.3.1

	a. 1 is repeated at many times b. 1 2 3 c.1 2 d. error					
	Part – B **(5 x 2 = 10 Marks)** **Instructions: Answer all Five Questions**					

6	Find the error in below program. write the corrected program and output (-> specifies the indentation)
	
	x=input ("enter value of x:"))
	for i in range (0,10):
	-> if x=y:
	->-> print("equal")
	-> else
	->-> print("unequal")
	
	Answer
	x=int(input ("enter value of x:"))
	for y in range(0,10):
	if x==y:
	print("equal")
	else:
	print("unequal")
		2	**1**	**1**	**1**	**1.1.1**

7	Create the ordered and changeable collections of elements. 1) Did it accept the duplicate value. 2)While printing the output, if the value 3 occurred then the execution get break and print the output 1)This is list it accept duplicate values 2) x=[1,2,3,4,5] for i in x : print(i) if i == 3: break	**2**	**2**	**1**	**1**	**1.1.1**

8	Output of below program is red, green kindly modify the below program according to that (-> specifies the indentation)
	
	class Car
	->def __init__(self, color)
	->->self.color = color
	red_car = Car()
	red_car.color
	green_car = Car()
	green_car.color
	
	<u>answer</u>
	class Car:
	def __init__(self, color):
	self.color = color
	red_car = Car('red')
	print(red_car.color)
	green_car = Car('green')
		2	**1**	**1**	**1**	**1.3.1**

	print(green_car.color)					
9	Write a Python program to create a lambda function that adds 15 to a given number passed in as an argument, also create a lambda function that multiplies argument x with argument y and prints the result. Answer: r = lambda a : a + 15 print(r(10)) r = lambda x, y : x * y print(r(12, 4))	**2**	**1**	**1**	**1**	**1.3.1**
10	Explain about dictionaries with simple example. The dictionary is an unordered collection that contains key:value pairs separated by commas inside curly brackets. Dictionaries are optimized to retrieve values when the key is known. numNames = {1:"One", 2:"Two", 3:"Three", 2:"Two", 1:"One"} type(numNames)	**2**	**1**	**1**	**1**	**1.3.1**
	Part – C **(2 x 5 = 10 Marks)** **Instructions: Answer for two questions**					
11a	(i) Define what is list with simple example.(2) Example A list is an ordered data structure with elements separated by a comma and enclosed within square brackets. languages = ["Python", "Swift", "C++"] print(languages[0]) print(languages[2])	**10**	**1**	**1**	**1**	**1.3.1**

	(iii)Create the two class both of the them having same functions name as air-condition. Sequence of input received from the user at runtime using the functions inside the class, based on the user input the air-condition will supply the hot_air and cool_air .Write a condition to print 10 times hot_air and 20 times cool_air in a month and also print the output as at what temperature ,which type of air is supplied (8)
	
	#any value student can choose for hot air temperature and cold air temperature .
	
	class a:
	def air_condition(self,n):
	i=0
	j=0
	for x in range(0, n):
	k=int(input("enter the temperature"))
	if k >=20:
	i=i+1
	else:
	j=j+1
		10	**1**	**1**	**1**	**1.3.1**

11b.	print(i) # hot air
	print(j) # cold air
	class b(a):
	def air_condition(self):
	n=int(input("enter number of time the temperature occurred"))
	self.function1(n)
	obj1=b()
	obj1.function1()
	
	def main():
	roll1 = random.randint(1, 6)
	roll2 = random.randint(1, 6)
	n = roll1+roll2
	print("You have rolled ",n)
	if (n == 7 or n == 11):
	print("You win. ")
	elif (n == 2 or n == 3 or n == 12):
	print("You lose. ")
	else:
	newRoll = 0;
	flag = True
	while(flag):
	newRoll = random.randint(1, 6) + random.randint(1, 6);
	print("Keep rolling... You just rolled a ",newRoll);
	if (newRoll != 7 and newRoll != (roll1 + roll2)):
	flag=False
	
	main()					

Course Outcome (CO) and Bloom's level (BL) Coverage in Questions