BRAC UNIVERSITY Department of Computer Science and Engineering

Examination: Midterm **Duration**: 60 Minutes

CSE 111: Programming Language
II

Semester: Fall 2022 Full Marks: 20 No. of Pages: 2

No. of **Questions**: 3

ם	Name:	ID:	
	(Please write in CAPITAL LETTERS)		Section:

- ✓ Use the back part of the answer script for rough work. No washroom breaks.
- ✓ At the end of the exam, put the question paper inside the answer script and return both.

Question 1: CO2 [4 Points]

Design the "**Spotify**" class with required properties to produce the given output for the provided driver code.

```
#Write your code here

rock= Spotify("Heavy Metal", "This Fire Burns", "Here I Am")

print(rock.show_playlist())

Output:

Genre: Heavy Metal

Song list: This Fire Burns, Here I Am
```

Question 2: CO4 [6 Points]

1	class MidB:
2	<pre>definit(self):</pre>
3	self.x = 3
4	self.y = 0
5	self.sum = 5
6	<pre>def methodA(self, x):</pre>
7	self.y = self.sum + self.x + x
8	self.sum = x + self.y
9	d = MidB()

Illustrate the output of the following
statements:
b = MidB()
b.methodA(6)
b.methodB(b, 99)

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10	d.sum = self.sum + self.methodB(d)
11	<pre>print(self.x, self.y, self.sum)</pre>
12	<pre>def methodB(self, t, z=0):</pre>
13	y = 3
14	t.x = self.x + self.sum
15	self.sum = t.x + t.y + y
16	<pre>print(t.x, t.y, t.sum)</pre>
17	if z == 0:
18	return t.sum

Question 3: CO2, CO4 [10 Points]

Implement the "PizzaMachine" class with necessary properties, so that the given output is produced for the provided driver code.

[Hint:

- 1. The Pizza machine can only bake pizzas of 3 spice levels: Regular, Hot and Super Naga.
- 2. Pizza cannot be baked if no toppings are specified.
- 3. "type(variable)" function returns the data type of the variable passed to it as an argument. You may need it.]

#Write your code here pizza1 = PizzaMachine() order1 = pizza1.customizePizza(["Cheese", "Pepperoni"], "Hot") print("1################"") print(order1) print("2======="") pizza2 = PizzaMachine("Vege") order2 = pizza2.customizePizza("Super Naga") print("3################") print(order2) print("4======="") pizza3 = PizzaMachine("Chicken Blast",12) order3 = pizza3.customizePizza(["Mushroom"]) print("5######################") print(order3) print("6======="") pizza4 = PizzaMachine("Beef Bonanza",16) order4 = pizza4.customizePizza(["Cheese","Beef kala bhuna"],"Mild") print("7#################") print(order4) print("8======="")

Output: