**BRAC UNIVERSITY**

Quiz 3 **Department of Computer Science and Engineering**

CSE111: Programming Language II Duration: 40 minutes Marks: 20

| Name: | ID: | Section: 27 |
| --- | --- | --- |
| (Please write in CAPITAL LETTERS) |  |  |

1. **Implement** the desired class so that the following output is generated.

Assume the location of the Departments:

CSE Department - UB806

BBA Department - UB209

EEE Department - UB502 [Mark 14]

[CO3, CO4]

| std1 = University('Harry', 181006, 'Male', 'ENG101', 'MAT110')  print('----------------------------------------')  std1.enrollInUni('CSE')  print('#######################################')  std1.printInfo()  std2 = University.initializeStudent('Bob', 191005, 'Male', 'ENG091')  print('----------------------------------------')  std2.enrollInUni('BBA')  print('#######################################')  std2.printInfo()  std2.set\_id(181005)  print(f"{std2.name}'s updated id: {std2.get\_id()}")  std3 = University('Jennifer', 181009, 'Female', 'ENG102', 'MAT092', 'BUS101')  print('----------------------------------------')  std3.enrollInUni('CSE')  print('#######################################')  std3.printInfo()  print('----------------------------------------') | **Output**  ----------------------------------------  BBA\_student: 0, EEE\_student: 0, CSE\_student: 1  #######################################  Student Name: Harry  ID:181006  Gender: Male  Location: UB806  Courses: ('ENG101', 'MAT110')  ----------------------------------------  BBA\_student: 1, EEE\_student: 0, CSE\_student: 1  #######################################  Student Name: Bob  ID:191005  Gender: Male  Location: UB209  Courses: ('ENG091',)  The student's id is updated!!  Bob's updated id: 181005  ----------------------------------------  BBA\_student: 1, EEE\_student: 0, CSE\_student: 2  #######################################  Student Name: Jennifer  ID:181009  Gender: Female  Location: UB806  Courses: ('ENG102', 'MAT092', 'BUS101')  ---------------------------------------- |
| --- | --- |

1. Trace the below table and write the outputs in the question paper. [Marks 6]

[CO4]

| **1** | **class A:** |
| --- | --- |
| **2** | **temp = 4** |
| **3** | **def \_\_init\_\_(self, b = None):** |
| **4** | **self.x, self.y, self.temp, self.sum = 4, -3, 2, 6** |
| **5** | **if b != None:** |
| **6** | **self.y = self.temp + 1** |
| **7** | **b.sum = 5 + self.temp + 3** |
| **8** | **self.temp -= 3** |
| **9** | **print(self.y, self.temp, b.sum)** |
| **10** | **else:** |
| **11** | **self.sum+=2** |
| **12** | **A.temp = self.x** |
| **13** | **def methodA(self, m, n):** |
| **14** | **x = 11** |
| **15** | **self.y = self.y + m + (self.temp)** |
| **16** | **self.temp += A.temp + n** |
| **17** | **x = x + 7 + m** |
| **18** | **self.sum = self.sum + x + self.y** |
| **19** | **print(self.temp, self.y, self.sum)** |

| **Write the output of the following code:**  **a1 = A()**  **a2 = A(a1)**  **a1.methodA(-1,5)** | Outputs | | |
| --- | --- | --- | --- |
|  |  |  |
|  |  |  |