**BRAC UNIVERSITY**

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

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

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

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

Assume the floor numbers:

Neurology Department - 2th Floor

Surgery Department - 4th Floor

Pediatric Department - 3rd Floor [Mark 14]

[CO3, CO4]

| h1 = ABCHospital('James', 35, 88294, 'Common Cold', 'Ear pain', 'Bronchitis')  print('----------------------------------------')  h1.admitInHospital('Pediatric')  print('#######################################')  h1.printInfo()  h2 = ABCHospital.initializePatient('Sirajee', 81, 98753, 'Nausea')  print('----------------------------------------')  h2.admitInHospital('Surgery')  print('#######################################')  h2.printInfo()  h2.set\_contact(89765)  print(f"{h2.name}'s updated contact number: {h2.get\_contact()}")  h3 = ABCHospital('Harry', 43, 567390, 'Restlessness', 'Vomiting')  print('----------------------------------------')  h3.admitInHospital('Surgery')  print('#######################################')  h3.printInfo()  print('----------------------------------------') | **Output**  ----------------------------------------  Surgery: 0, Pediatric: 1, Neurology: 0  #######################################  Patient Name: James  Age:35  Contact: 88294  Floor Number: 3  Symptoms: ['Common Cold', 'Ear pain', 'Bronchitis']  ----------------------------------------  Surgery: 1, Pediatric: 1, Neurology: 0  #######################################  Patient Name: Sirajee  Age:81  Contact: 98753  Floor Number: 4  Symptoms: ['Nausea']  Contact Updated!!  Sirajee's updated contact number: 89765  ----------------------------------------  Surgery: 2, Pediatric: 1, Neurology: 0  #######################################  Patient Name: Harry  Age:43  Contact: 567390  Floor Number: 4  Symptoms: ['Restlessness', 'Vomiting']  ---------------------------------------- |
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1. Trace the below table and write the outputs in the question paper. [Marks 6]

[CO4]

| **1** | **class A:** |
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| **2** | **temp = 2** |
| **3** | **def \_\_init\_\_(self, b = None):** |
| **4** | **self.x, self.y, self.temp, self.sum = -2, 4, 7, 1** |
| **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 = 7** |
| **15** | **self.y = self.y + m + (self.temp)** |
| **16** | **self.temp += A.temp + n** |
| **17** | **x = x + 5 + 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(4,2)** | Outputs | | |
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