**BRAC UNIVERSITY**

Quiz 2 **Department of Computer Science and Engineering**

CSE111: Programming Language II Duration: 30 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.

[Marks 10]

[CO2, CO4]

| member1 = Library('Zulkarnain', 'CSE-01')  print('----------------------------------')  print(member1.memberInfo())  print(member1.addBooks('The Magic Tree', 'Wizards of Ice'))  member2 = Library('Tahphim', 'MNS-04')  print('----------------------------------')  print(member2.memberInfo())  print(member2.addBooks('The Dark Dragon', 'The Last Flame'))  member3 = Library('Faiza', 'CSE-02')  print('----------------------------------')  print(member3.memberInfo()) | **Output**  A new member is added  ----------------------------------  Name: Zulkarnain  Department: CSE  ID: 01  {'Zulkarnain': ['The Magic Tree', 'Wizards of Ice']}  A new member is added  ----------------------------------  Name: Tahphim  Department: MNS  ID: 04  {'Tahphim': ['The Dark Dragon', 'The Last Flame']}  A new member is added  ----------------------------------  Name: Faiza  Department: CSE  ID: 02 |
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1. Trace the below table and write the outputs in the question paper. [Marks 10]

[CO2, CO4]

| **1** | **class Quiz2:** |
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| **2** | **def \_\_init\_\_(self, p):** |
| **3** | **self.p = p** |
| **4** | **self.sum, self.y = -1,-2** |
| **5** | **def methodA(self):** |
| **6** | **val, y = 2, 3** |
| **7** | **msg = [0]** |
| **8** | **msg[0] = 3** |
| **9** | **y = self.p + msg[0]** |
| **10** | **self.methodB(msg, msg[0])** |
| **11** | **val = self.y + msg[0]** |
| **12** | **self.p = val + y + msg[0]** |
| **13** | **print(val, y, self.sum)** |
| **14** | **def methodB(self, mg2, mg1):** |
| **15** | **val = 1** |
| **16** | **self.y = self.y + mg2[0]** |
| **17** | **val = 25 + mg1** |
| **18** | **self.sum = self.sum + val + self.y** |
| **19** | **mg2[0] = self.y + mg1** |
| **20** | **mg1 = self.p + val + 2** |
| **21** | **print(val, self.y, self.sum)** |
| **22** | **return mg1** |

| **Write the output of the following code:**  **q1 = Quiz2(3)**  **q1.methodA()**  **q2 = Quiz2(1)**  **print(q2.methodB([1,2], 4))** | Outputs | | |
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