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| **Student ID:- Bc180201337****Student Name:- Muhammad Rizwan****Question No. 1 [Marks: 10]**Consider a bridged network consisting of two segments. The **segment 1** consists of computer A, B and Cwhereas the **segment 2** consists of computers I and J. You are required to complete address table for the bridge after each event is performed. Assume that bridge has just rebooted, and its address list is empty.

|  |  |
| --- | --- |
| **Network Event** | **Address List** |
| **Segment 1** | **Segment 2** |
| *Computer I* sends a frame to *Computer J* | - | I |
| *Computer C* sends a frame to *Computer J* | C | I.J |
| *Computer J*sends a frame to *Computer B* | B.C | J.I |
| *Computer A* sends a frame to *Computer I* | A.B.C | I |
| *Computer B* sends a frame to *Computer A* | B | - |

**Note:*** Use letters A, B, C, I and J to complete the address table.
* No description is required to fill up address table.

**Question No. 2 [Marks: 10]**Following figure shows that different devices are attached with switches (1, 2 and 3). You are required to complete the entries for the Next Hop in the given table.

|  |  |
| --- | --- |
|  **Destination** | **Next Hop** |
| [1,4] | **Interface 2** |
| [3,5] |  **Interface 3** |
| [3,6] | **Interface 3** |
| [2,5] | **Interface D** |
| [2,6] | **Interface E** |

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