# **CSE 230: Discrete Mathematics (Sec-2) Quiz #2 Total Marks: 20 Time: 40 minutes**

|  |  |
| --- | --- |
| **NAME:** | **ID:** |

**Please read the instructions carefully before attempting to answer the questions. No extra sheet(s) will be provided.**

1. Each of the 90 students participated in at least one of the three track events A, B and C. If 20 students participated in A, 40 students participated in B, and 60 students participated in C, and 5 students participated in all three events. **Marks: 05 + 05 = 10**
2. How many students participated in **at least two** events?
3. How many student participated in **exactly two** events?
4. Determine whether the function from to is *bijective* or not. Explain your answer in brief. **Marks: 05**
5. Your office assigns cubicles for the new employees based on the following hashing function:

, where. Find the cubicle no. for the new employees with the following IDs: 7108 and 7331. **Marks: 05**

**CSE230 Mid Term Invigilation Duty Roster**

|  |  |  |
| --- | --- | --- |
| **Room** | **Section** | **Invigilator** |
| **UB20801** | **1** | **RAA** |
| **UB20802** | **2** | **NOR** |
| **UB20803** | **3** | **RYB** |
| **UB20804** | **4** | **KAP** |
| **UB20901** | **5** | **MRA** |
| **UB20902** | **6** | **SRJ** |
| **UB20903** | **7** | **FBA** |
| **UB20904** | **8** | **KMA** |