**North SouthUniversity**

Department of Computer Science and Engineering

**Quiz-2**, Section – 4, Spring-2017

Course No: **CSE 231** Course Title: **Digital Logic Design**

Time: 10 min Full Marks:10

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| 1. | Use Karnaugh maps to simplify the following expression: | 5 |
|  | **F = a’b’c’d’ + a’b’cd + a’bc’d’ + a’b’c’d + ab’cd’ + ab’cd + abc’d’ + a’b’c’d + a’bc’d’ + a’bcd’** |  |
| 2. | Use Karnaugh maps to simplify the following expression: | 5 |
|  | **xyz’ + xy’z’ + x’y’z + x’y’z’ (don’t care x’yz’ )** |  |