



Daffodil International University
 Department of Electrical and Electronic Engineering
 Faculty of Engineering
Class Test 2

Course Code: 0713-215

Section: C

Full Marks: 15

Course Title: Electrical Properties of Materials

Level-Term: L2-T1

Exam Date: February 19, 2025

Teacher's Initial: AKB

Time: 20 min

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|-------------------------|------|---|
| Q1. Explain shortly on- | CO-1 | 5 |
| a. Unit Cell | C(2) | |
| b. Lattice Parameter | | |

- | | | |
|---|------|----|
| Q2. Consider the BCC unit cell of the Iron crystal shown in the figure: | CO-1 | 10 |
| | C(1) | |



- a) Find the number of atoms per unit cell.
- b) Find Atomic Packing Factor.
- c) Find the atomic concentration in Fe and the density of Iron crystal given that the radius of Fe is 0.194 nm.