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Daffodil International University

Department of Electrical and Electronic Engineering

Faculty of Engineering

Class Test 2

Course Code: 0713-215 Course Title: Electrical Properties of Materials

Section: C Level-Term: L2-T1 Teacher's Initial: AKB

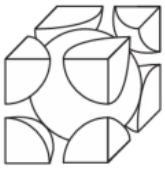
Full Marks: 15 Exam Date: February 19, 2025 Time: 20 min

Q1. Explain shortly on- CO-1 C(2) 5

a. Unit Cell

b. Lattice Parameter

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



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.

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