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Daffodil International University

Department of Computer Science and Engineering

Faculty of Science & Information Technology

Class Test -1, Spring-2025

Course Code: PHY-102, Marks: 15

1. *What do you mean by Conservation of charge? Discuss briefly with example. [1]*

2. *State Coulombs law and give the final equation. [1]*

3. *Explain Electric Flux? [2]*

4. *Explain Gauss's Law. Also derive Coulomb's law from Gauss's law. [4]*

5. *What will be the value of Electric Field at a point near a straight uniform Rod of infinite length? [4]*

6. *Determine the magnitude of the two identical charges, when the electrostatic force between these two identical charges is 1000 N and are separated by a distance of 0.1 m. [3]*