

Jashore University of Science and Technology

Bachelor of Science Electrical and Electronic Engineering

1st semester of 1st year (2022 – 2023)

Course no. : PHY 1101

Course title : Physics

Class test no. : 01

Date : November 13, 2023

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1. Write down the postulates of the special theory of relativity. [5]

2. A meter stick moving with respect to an observer appears only 500 mm long to her. What is its relative speed? [6]

3. A particle has a kinetic energy 20 times its rest energy. Find the speed of the particle in terms of c . [6]

4. Find the energy of an x-ray photon which can impart a maximum energy of 50 keV to an electron. [3]