Jashore University of Science and Technology

Bachelor of Science Electrical and Electronic Engineering

1st semester of 1st year

Course no.: PHY 1101 Course title: Physics Class test no.: 01 Date: March 01, 2023

Roll:
1. Write down the postulates of the special theory of relativity. [5]
2. If the speed of light were smaller than it is, would the relativistic phenomena be more or less conspicuous than they are now?
conspicuous than they are now.
3. A meter stick moving with respect to an observer appears only 500 mm long to her. What is its relative speed?

4. A particle has a kinetic energy 20 times its rest energy. Find the speed of the particle in terms of c.