

Jashore University of Science and Technology
Department of Physics

Bachelor of Science with Honours in Physics

Second semester of Second year

Course no. : PHY 2207

Course title : Semiconductor Physics and Devices

Assignment no. : 01

Submission date : November 29, 2020

- 1.** Discuss how the Hall effect could be used to obtain information on free charge density in a conductor. (Hint: Consider how drift velocity and current are related.) [10]
- 2.** Can mobility of charge carriers can be determined from Hall effect? If yes, how? [10]