

Jashore University of Science and Technology

Bachelor of Science with Honours in Physics

Second semester of Second year

Course code: PHY 2207

Course title: Semiconductor Physics

Quiz no. : 01

Date: September 03, 2023

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1. Define semiconductor and conductor using the concept energy bands. [6]

2. An n -type semiconductor material is electrically neutral and not negatively charged. Why? [3]

3. What is meant by 1 eV? How temperature can be converted in eV? Explain with example. [5]

4. What is extrinsic semiconductor? Explain how n -type semiconductors can be formed by doping. [6]