Indian Institute of Science Education and Research Kolkata

Earth and Planetary Sciences (ES1101, Autumn 2023)

Model Question Paper

Instructor: Gaurav Shukla

- 1. Briefly discuss the elastic rebound theory for earthquake and possible reasons for the non-periodic occurrence of earthquakes along a particular fault.
- 2. Discuss the formation of P- and S-waves shadow zones.
- 3. Briefly discuss the radial variation of the P- and S-wave velocities inside the Earth and relate these variations to the layered Earth structure based on physical properties.