

Raiganj Surendranath Mahavidyalaya

CBCS B.Sc PHYSICS Honours (PRACTICAL Exam)

Semester-I, 2020

DC 2P: MECHANICS

Full Marks-15

Time- 3.30 Hours

Answer any FIVE questions: (5×3)

- 1. Why does the coefficient of viscosity of water fall off with increasing temperature ?**
- 2. When does the minimum period of a compound pendulum occur ?**
- 3. Define the terms “centre of suspension” and “centre of oscillation”.
What would happen if the centre of suspension coincides with the C.G.?**
- 4. If the vertical axis through the centre of gravity of the rotating body (cylinder or bar) does not coincide with the axis of the suspension wire what will happen?**
- 5. What do you mean by neutral layer of a bent beam ?**
- 6. Does the weight of the bar have any effect ?**
- 7. How do you ensure that in your experiment the elastic limit is not exceeded ?**