

Raiganj Surendranath Mahavidyalaya

CBCS B.Sc PHYSICS Honours (PRACTICAL Examination)

Semester-II, 2021

DC 4P: Waves and Optics

Full Marks-15

Time- 3.00 Hours

Answer any THREE questions: (3 × 5)

- 1. Why is the central spot dark in case of Newton's ring ?**
- 2. What is the difference between spectra formed by prism and spectra formed by grating ?**
- 3. Why do you focus spectrometer for parallel rays in $D - \lambda$ experiment?**
- 4. Explain why non-localized fringes are formed in Fresnel biprism whereas localized fringes are formed in Newton ring experiment.**
- 5. What is the principle of Melde's experiment ? What do you mean by stationary waves and progressive waves ?**