

Questions For Internal exam of **SEM IV**
Physics (generic/general) Theory

Answer any two questions

- ① What do you mean by viscosity of a liquid. Describe with theory Poiseuille's formula for the determination of viscosity of liquid.
- ② Explain Huygen's theory of wave theory of light. What is primary wave front and what are secondary wavelets?
- ③ What are Newton's rings. Describe with theory the measurement of the wavelength of light by Newton's ring method.
- ④ What do you mean by Interference of light. Describe Fresnel's biprism method for the determination of wavelength of light.
- ⑤ State principle of virtual work & obtain an expression for difference of pressure in the two sides of a curved liquid surface.

Questions For Internalexam of SEM IV
physics (general/general) practical

Answer any one question.

① Describe the theory of ~~optical~~ Newton's ring method for determination of wavelength of light.

② Describe the theory for determination of Refractive Index of material of a prism through spectrometer.