

#### Work for Home

*All Students of B.Sc. Part-II Physics (Hons.) (2019-20) are directed to complete their Home work for Physics Paper-III (Optic) i.e. complete the answer of following question and send it with Name & Roll No. on my email id-mir.abbas.hu@gmail.com or my personal whatsapp no.9431494003*

- 1. Drive with theory and diagram, the measurement of wave length of light with the help of plane diffraction grating.*
- 2. Explain the construction and working of a Michelson's interferometer. Explain the formation of circular fringes.*
- 3. Describe Newton's ring for the measurement of wave length of light.*
- 4. Explain Rayleigh Criterion of resolving power of an optical instrument. Derive an expression for the resolving power of telescope and prism.*
- 5. State and explain Fermat's Principle of extremum path and use it to the law of reflection and refraction of light.*

*Note :- any question arises by the students may ask on my personal Whatsapp no. 9431494003 instead of group whatsapps no. form 10:00 A.M. to 3:00 P.M. including Sunday.*

*Dr. Mirza Abbas Hussain*

*H.O.D. Physics*

*Oriental College*