

- 1(a) Describe the nature of light? 4
- (b) What is interference of light? What types of nature of light can be describe by the interference phenomenon. 2
- (c) What is constructive and destructive interferences. 2
- (d) Find out a relation between the phase difference and the path difference. 2
- 2(a) Define magnetic induction B. Explain when the magnetic force F is maximum and minimum. 4
- (b) State and Explain Ampere's law. 4
- (c) State Faraday's law of induction. 2
- 3(a) What is capacity of a capacitor. 2
- (b) Establish Gauss's law in the present of Dielectric. 8