June - July 2019

Bachelor of Computer Application (BCA) Examination

Second Semester BCA-203: PHYSICS - II

Time 3 Hours

[Max. Marks 40 [Min. Marks 13

Note: Attempt all the five questions. Solve any two parts from each question. All questions carry equal marks.

- 1. (a) Write down the properties of plane wave propagation.
 - (b) In ionaspheric wave propagation explain the concept of critical frequency and skip distance.
 - (c) What down the characteristics of coaxial cable transmission and also explain the reflection coefficient.
- (a) Explain constructive and destructive interference phenomenon.
 - (b) Explain the interference of light in thin films.
 - (c) Explain the concept and diagramatically arrangement of Michelson's interferemeter.
- 3. (a) Write short note on Rectilinear Propagation of light.
 - (b) Explain the concept of plane diffraction grating.
 - (c) Find out the expression for resolving power of a grating.
- 4. (a) What do you meant by polarization? Why it is not observed in longitudinal waves.
 - (b) Write down the conditions of the Quarter and Half Wave Plates.
 - (c) Explain the Fresnel's theory of optical rotation.
- 5. (a) What is doppler's effect of light? Write down its applications.
 - (b) Write down the concepts of spatial and temporal Coherence.
 - (c) Explain the terms : Stimulated Emission and Population Inversion.

http://www.davvonline.com Whatsapp @ 9300930012 Your old paper & get 10/-पुराने पेपर्स भेजे और 10 रूपये पार्ये, Paytm or Google Pay से