**Part B**

1. Compare intramodel and intermodal dispersion

2. Explain about intrinsic absorption in optical fiber

3. Discuss about dispersion in optical fiber

4. Differentiate between luminescence and incandescence

5. Comment on Quantum efficiency.

6. List out the types and advantages of photodiode.

7. Give the principle of photo detection in semiconductor.

8. What is the maximum core radius allowed for a glass fiber having n1=1.465 and n2=1.46 if the fiber is to support only one mode at wavelength of 1250nm.

9. List the factors that cause Rayleigh scattering in optical fibers.

10. Compare fluorescence and phosphorescence

**Part C**

**1.** Discuss the attenuation encountered in optical fiber communication due to Bending, Scattering and Absorption.

2. Discuss the construction and working of surface emitting and edge emitting LED.

3. With a neat sketch explain the principle and operation of PIN and Avalanche photodiode.

4. Illustrate micro bending and macro bending losses with suitable diagram.

5. Sketch the structure of LASER and explain its working principle.