

SECTION C

6. What do you understand by luminescence? Briefly explain the different types of luminescence.
7. What do you mean by resolving power of a spectrometer? Explain taking the example of a prism as the dispersing element. Also explain how the resolution depends upon slit width.
8. How does absorption signal originate in NMR spectroscopy? What is meant by 'resonance in NMR spectroscopy'?
9. Derive the criteria for phase equilibria for a multi-component system. Deduce from it, the criteria for two phase equilibria for one component system.