



PART – C

Answer **any five** of the following. **Each** question carries **two** marks : **(5×2=10)**

17. a) Does more massive star has shorter wavelength ? Explain.
- b) Can all stars have equal masses ? Explain.
- c) Penetrating power of X-rays is greater than that of visible light. Justify.
- d) Does all the energy levels are filled by electrons at absolute zero ? Explain.
- e) Large currents can not be passed through superconductors even though they have zero electrical resistance. Justify.
- f) The depletion region of a semiconductor diode becomes wide when it is reverse biased. Explain.
- g) Is ordinary light can be used for crystal diffraction ? Explain.
- h) The size of the collector is made wider than emitter and base. Explain.

