

Program	B. Tech CS : All courses	Semester	I
Course	ENGINEERING PHYSICS	Course Code	PHYS1023
Session	Sept - Dec, 2021	Topic	Lasers/ Holography/ OFC

1. What is meant by population inversion and how is it achieved in practice?
2. What is the role of He in He-Ne laser? Explain the working with a suitable energy level diagram.
3. How do CDs use optical laser technology?
4. Can we have a two-level laser? Explain lasing transition in Ruby laser.
5. How would you differentiate between holography and photography?
6. (i) What is used for the fabrication of optical fibers that are used for communication?
(ii) List out few advantages of optical fiber communication.
7. What equipment is needed for fiber optic internet? What is the bandwidth of optical fiber?