

PHYSICS LECTURE WISE QUESTIONS (1st YEAR)

Unit No. & Name	Lecture No.	Questions	Weightage as per University Exam	Reference
MODULE I RELATIVISTIC MECHANICS	L1	What is Laser? What are its application,	5	UPTU (2012)(2008)(2019)
		Discuss the basic principle and working of Laser.	2	UPTU (2009)(2011) (2012)
	L2	What are Einstein's coefficients?	2	UPTU (2010-11)
		Derive Einstein relation. and State the important characteristics and uses of laser beam.	7.5	UPTU (2012-13)
	L3	Draw a neat diagram of Ruby Laser and describe its method of working.	7.5	UPTU (2010) AKTU (2017-18)
		Explain Helium-Neon Laser and describe its method of working.	7.5	UPTU (2012-13) UPTU (2014-15)
	L4	What is difference between a continuous and a pulse laser?	5	UPTU (2013)
		Explain propagation of light through an optical fiber	5	UPTU (2010-11)
	L5	Give block diagram showing how optical fiber communication can be made.	7.5	UPTU (2010)
		What is Numerical aperture?	5	UPTU (2014-15)
		What is Attenuation?	5	UPTU (2011-12)
	L6	Explain mode of fibers	2	UPTU (2011)(2012) (2014-15)
		Step index, Graded index, Single mode, Multi mode, Inter mode.	5	AKTU (2015-16)