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Reg. No. :

Name:

Date of exam:

Continuous Assessment Test -II, October 2016

Programme	: B. Tech	Semester	: Fall 2016-17
Course Title	: Engineering Physics	Course Code	: PHY1001
School	: School of Advanced Sciences - Department of Physics	Slot	: B1+TBI
Duration	: 1 Hour 30 minutes	Max. Marks	: 50

Answer all questions (10X5 = 50)

1. What is optical pumping and explain its significance in different energy level schemes. Explain the role of radiative and non-radiative decay in optical pumping.
2. a) Calculate the coherence length of a laser in which the line width of the laser is 1MHz.
b) Nd-YAG laser might have a 20 ns pulse width, energy of 5 mJ per pulse, and operates at a repetition rate of 25 pulses per second. Find out the average power of this laser. What is the advantage of pulsed laser?
3. For an emission at a wavelength of 1064 nm, at what temperature both spontaneous and stimulated emission will be same? Briefly explain why the high frequency lasers are difficult to construct compared to the low frequency one.
4. How to suppress the unwanted wavelengths in He-Ne laser? What are the transitions in He-Ne energy level scheme can be used for laser? Comment on each laser transitions based on their output gain and wavelength regime.
5. What are singlet and triplet states. Explain the role of singlet and triplet states in dye laser. How to suppress the triplet absorption in dye laser.
6. a) Give the physical meaning of gradient, divergence and curl of a vector field.
b) Prove that the electromagnetic waves are transverse in nature.
7. How the Stoke's theorem and Gauss divergence theorem are used to convert the Maxwell's equations from differential form to integral form. Give the details.

Vit M Tech Entrance Exam Previous Papers

Arturo Cuomo



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