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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

**Raffaela Di Napoli**



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current exam pattern the type of questions asked and their answers All the questions in the book have been solved by respective subject experts with due diligence Detailed Explanatory Answers have also been provided for selected questions for Better Understanding of readers for study and self practice The book will serve well both as practice material a true test of your studies and preparation with actual exam questions While the specialised practice material in the form of Previous Years Papers is published with the sole aim of Paving the Way to your Success your own intelligent study and practice in Synergy with this will definitely ensure you Success in the Prestigious Exam      *University of Delhi (DU) MA History Entrance Exam Guide* Rph Editorial Board, 2020-10 The present book is specially published for the aspirants of MA History Entrance Exam conducted by the University of Delhi The book comprises the Latest Practice Material in the form of Solved Multiple Choice Questions to make you well conversant with the type of questions asked in the exam with their answers which have been provided by subject experts for Better Understanding The book is highly recommended to Enhance your Problem Solving Skills with thorough practice of numerous questions provided in the book and prepare you to face the exam with Confidence Successfully Based on the Current Pattern of exam the book will prove very useful to you for study practice and during the precious moments before the exam The book contains sufficient Practice Material and Exhaustive Exercises with Numerous Multiple Choice Question Answers along with a Special Section of Important Questions selected from Previous Years Papers and solved by subject experts While the objective practice material of this book is aimed to Mentor you to Success your own intelligence and practice in Synergy with this will definitely Ensure you a seat in the Prestigious Course paving the way for a Magnificent Career      *Tertiary Entrance Examination Question Papers and Solutions* , 1994

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