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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.

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Table of Contents Vit M Tech Entrance Exam Previous Papers

1. Understanding the eBook Vit M Tech Entrance Exam Previous Papers
 - The Rise of Digital Reading Vit M Tech Entrance Exam Previous Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Vit M Tech Entrance Exam Previous Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Vit M Tech Entrance Exam Previous Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Vit M Tech Entrance Exam Previous Papers
 - Personalized Recommendations
 - Vit M Tech Entrance Exam Previous Papers User Reviews and Ratings
 - Vit M Tech Entrance Exam Previous Papers and Bestseller Lists

5. Accessing Vit M Tech Entrance Exam Previous Papers Free and Paid eBooks
 - Vit M Tech Entrance Exam Previous Papers Public Domain eBooks
 - Vit M Tech Entrance Exam Previous Papers eBook Subscription Services
 - Vit M Tech Entrance Exam Previous Papers Budget-Friendly Options
6. Navigating Vit M Tech Entrance Exam Previous Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Vit M Tech Entrance Exam Previous Papers Compatibility with Devices
 - Vit M Tech Entrance Exam Previous Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Vit M Tech Entrance Exam Previous Papers
 - Highlighting and Note-Taking Vit M Tech Entrance Exam Previous Papers
 - Interactive Elements Vit M Tech Entrance Exam Previous Papers
8. Staying Engaged with Vit M Tech Entrance Exam Previous Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Vit M Tech Entrance Exam Previous Papers
9. Balancing eBooks and Physical Books Vit M Tech Entrance Exam Previous Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Vit M Tech Entrance Exam Previous Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Vit M Tech Entrance Exam Previous Papers
 - Setting Reading Goals Vit M Tech Entrance Exam Previous Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Vit M Tech Entrance Exam Previous Papers
 - Fact-Checking eBook Content of Vit M Tech Entrance Exam Previous Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
- Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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