



Note : 1. Answer any five questions choosing one full question from each unit.

2. Physical constant values:

Planck's constant $h = 6.626 \times 10^{-34} \text{ J s}$, Boltzmann Constant $k = 1.38 \times 10^{-23} \text{ J/K}$

Electron Charge, $e = 1.602 \times 10^{-19} \text{ C}$, Mass of electron $m_e = 9.1 \times 10^{-31} \text{ kg}$

Permittivity of vacuum $\epsilon_0 = 8.854 \times 10^{-12} \text{ Fm}^{-1}$

Charge of the electron $e = 1.6 \times 10^{-19} \text{ C}$, Velocity of light $c = 3 \times 10^8 \text{ ms}^{-1}$

Avogadro Number $N_A = 6.023 \times 10^{23} \text{ /kmol}$, Acceleration due to gravity, $g = 9.8 \text{ ms}^{-2}$

Unit - I

- 1 a) Define the terms stress and strain. Derive the relation between γ and σ where the symbols have their usual meaning.

BL:	2	CO:	1	PO:	1	PSO:	
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10

- b) What is a perfectly elastic body? Describe the experimental method to determine the Young's modulus of the material using single cantilever method.

BL:	2	CO:	1	PO:	1	PSO:	
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6

- c) Calculate the force required to produce an extension of 1mm in steel wire of length 2m, and diameter 1mm. [Young's Modulus for steel $= 2 \times 10^{11} \text{ N/m}^2$]

BL:	3	CO:	5	PO:	2	PSO:	
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4

OR

- 2 a) Define Poisson's ratio? Discuss theoretical and practical limits of Poisson's ratio.

BL:	2	CO:	1	PO:	1	PSO:	
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6

- b) What is torsional Pendulum? Obtain an expression for rigidity modulus of the wire.

BL:	2	CO:	1	PO:	1	PSO:	
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10

- c) A solid lead sphere of radius 10.3m is subjected to a normal pressure of 10 N/m^2 acting all over the surface. Determine the change in its volume [Given: Bulk Modulus of lead(K) $= 4.58 \times 10^{10} \text{ N/m}^2$]

BL:		CO:		PO:		PSO:	
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4

Unit - II

- 3 a) Explain the construction and working of He-Ne laser with the help of energy level diagram.

BL:	2	CO:	2	PO:	1	PSO:	
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10

- b) Discuss the different types of optical fibers with suitable diagrams.

BL:	2	CO:	2	PO:	1	PSO:	
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6

- c) A medium in thermal equilibrium at temperature 300K has two energy levels with a wavelength separation of $1 \mu\text{m}$. Find the ratio of population densities of the upper to lower levels.

BL:	3	CO:	5	PO:	2	PSO:	
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4

OR

- 4 a) Define numerical aperture, Obtain an expression for the numerical aperture of an optical fiber.

BL:	2	CO:	2	PO:	1	PSO:	
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6

Engineering Science Question Papers Exam

Michal Rosen-Zvi



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Table of Contents Engineering Science Nquestion Papers Exam

1. Understanding the eBook Engineering Science Nquestion Papers Exam
 - The Rise of Digital Reading Engineering Science Nquestion Papers Exam
 - Advantages of eBooks Over Traditional Books
2. Identifying Engineering Science Nquestion Papers Exam
 - 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 Engineering Science Nquestion Papers Exam
 - User-Friendly Interface
4. Exploring eBook Recommendations from Engineering Science Nquestion Papers Exam
 - Personalized Recommendations
 - Engineering Science Nquestion Papers Exam User Reviews and Ratings

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