

DR B R AMBEDKAR NATIONAL INSTITUTE OF TECHNOLOGY
JALANDHAR

B.Tech. – I/II SEMESTER

PH-101 Physics

End Semester Exam (summer Course June 21, 2012)

Duration: 3 hours

Max Marks: 50

Note: Attempt all questions.

1. (a) Show that vector $\vec{A} = -\frac{2xz}{x^2} \hat{i} + \frac{z^2}{x^2} \hat{j} + \frac{2yz}{x^2} \hat{k}$ is irrotational. (3)

(b) Derive an expression for Clausius Mossotti relation. (4)

2. Write Maxwell's equations and discuss their physical significance. (4)

3. State Biot-Savart's Law. Use the same to find the field strength at the centre of a current carrying circular loop. (4)

4. (a) Find the relation between Einstein's coefficients. (3)

(b) Explain the construction and working of He-Ne laser. Draw the energy level diagram and indicate the wavelength of radiation. (4)

5. Derive an expression for the Einstein's mass- energy relation. (3)

6. Determine mass and speed of an electron having kinetic energy 100 keV. (4)

7. Using Uncertainty Principle, establish the fact the electrons cannot reside inside a nucleus. (3)

8. What is a wave packet? Prove that group velocity is equal to velocity of the moving particle. (5)

9. (i) A particle of mass m confined to move inside an infinite deep potential well

$$V(x) = \begin{cases} +\infty & x < a \\ 0 & 0 \leq x \leq a \\ +\infty & x > a \end{cases}$$

Find the wave function and energy of the particle. (4)

Engineering Physics Nquestion Papers And Memorandums

Kathleen Armour



Engineering Physics Nquestion Papers And Memorandums:

Technical Paper ,1968 Educart CBSE Class 12 Mathematics Question Bank 2025-26 on new Syllabus 2026 (Includes Past Years Solved Questions) Educart,2025-05-26 Book Structure Chapter wise coverage with practice Qs and Unit Test Worksheets How Good are Educart Question Banks Based on the NCERT rationalised syllabusBased on CBSE guidelines you study exactly what you need for exams Includes real life examples to make learning practical and relatable Case based and assertion reason questions for deeper understanding Covers previous board exam questions and those from the DIKSHA platform Includes detailed solutions for NCERT Exemplar questions to boost confidence Topper s Corner shares expert guidance to avoid common mistakes Why Choose this Book Most Recommended CBSE Reference Book for Chapter wise Study **NASA Technical Memorandum** ,1994 *Technical Paper (United States. Bureau of the Census).* ,1969

Technical Report - Jet Propulsion Laboratory, California Institute of Technology Jet Propulsion Laboratory (U.S.),1964

Competition Science Vision ,2004-03 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue Mr. China's Son Liyi He,2018-02-19 He Liyi belongs to one of China s minorities the Bai and he lives in a remote area of northwestern Yunnan Province In 1979 his wife sold her fattest pig to buy him a shortwave radio He spent every spare moment listening to the BBC and VOA in order to improve the English he had learned at college between 1950 and 1953 For further practice he decided to write down his life story in English Humorous and unfiltered by translation his autobiography is direct and personal full of richly descriptive images and phrases from his native Bai language At the time of He Liyi s graduation English was being vilified as the language of the imperialists so the job he was assigned had nothing to do with his education In 1958 he was labeled a rightist and sent to a reeducation through labor farm Spirited away by truck on the eve of his marriage Mr He spent years in the labor camp where he schemed to garner favor from the authorities who nevertheless shamed him publicly and told him that all his problems belong to contradictions between the people and the enemy After his release in 1962 the talented Mr He had no choice but to return to his native village as a peasant His stratagems for survival which included stealing nightsoil from public toilets and extracting peach pit oil from thousands of peaches personify the peasant s universal struggle to endure during those difficult years He Liyi s autobiography recounts nearly all the major events of China s recent history including the Japanese occupation the Communist victory over the Nationalists in 1949 Mao s disastrous Great Leap Forward and Cultural Revolution the experience of the labor camps and

changes brought about by China's dramatic re opening to the world since Deng Xiaoping came to power in 1978 No other book so poignantly reveals the travails of the common person and village life under China's tempestuous Communist government which He Liyi ironically refers to as Mr China Yet he describes his saga of poverty and hardship with humor and a surprising lack of bitterness And rarely has there been such an intimate frank view of how a Chinese man thinks and feels about personal relationships revealed in dialogue and letters to his two wives He Liyi's autobiography stands as perhaps the most readable and authentic account available in English of life in rural China He Liyi's previous book is The Spring of Butterflies London and New York 1985 a translation of Chinese folk tales Competition Science Vision ,2005-06

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of Sciences, Arts, and Letters Wisconsin Academy of Sciences, Arts, and Letters,1907 Vols for 1870 72 1926 include Proceedings and List of members of the academy Competition Science Vision ,2001-03 Competition Science Vision monthly magazine is published by Pratiyogita Darpan Group in India and is one of the best Science monthly magazines available for medical entrance examination students in India Well qualified professionals of Physics Chemistry Zoology and Botany make contributions to this magazine and craft it with focus on providing complete and to the point study material for aspiring candidates The magazine covers General Knowledge Science and Technology news Interviews of toppers of examinations study material of Physics Chemistry Zoology and Botany with model papers reasoning test questions facts quiz contest general awareness and mental ability test in every monthly issue **Competition Science Vision** ,1999-10

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 - Chapter 2: Essential Elements of Engineering Physics Nquestion Papers And Memorandums
 - Chapter 3: Engineering Physics Nquestion Papers And Memorandums in Everyday Life
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- The book is crafted in an easy-to-understand language and is complemented by engaging illustrations. It is highly recommended for anyone seeking to gain a comprehensive understanding of Engineering Physics Nquestion Papers And Memorandums.

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