

Physics - (P-I)JUNE
2019

Note : 1) All question are compulsory.

2) Figures to the right indicate full marks.

3) Use of scientific calculator is allowed.

Q. 1) Attempt any TWO of the following.

(8)

- (a). A block slides down an incline of angle 30° with an acceleration of $0.3g$. Find the coefficient of kinetic friction.
- (b). Define the terms stress and strain.
- (c). Explain viscosity and viscous drag in fluids.
- (d). An isotropic homogeneous material prove that $Y = 2\eta (1 + \sigma)$

Q. 2) Attempt any TWO of the following.

(10)

- (a). Prove that for the perfect gas $C_p - C_v = R$; where C_p and C_v are molar specific heats of a gas.
- (b). State and explain zeroth law of thermodynamics.
- (c). What are the types of optical fibre? Explain one of them.
- (d). When some quantity of an ideal gas at NTP is compressed adiabatically its volume reduces to one fourth of its original calculate final pressure and temperature. ($\gamma = 1.4$)

Q. 3) Attempt any TWO of the following.

(10)

- (a). Explain the detection of ultrasonic waves using Kundt's tube.
- (b). Obtain the general solution of wave equation $\frac{\partial^2 y}{\partial x^2} = \frac{1}{c^2} \frac{\partial^2 y}{\partial t^2}$
- (c). What are the essential features of good acoustics?
- (d). Calculate the frequency of the fundamental note emitted by piezoelectric crystal.
Vibrating length = 3 mm, $Y = 8 \times 10^{10} \text{ N/m}^2$, $\rho = 2.5 \text{ gm/cc}$.

Fybsc Physics Syllabus Mumbai University

B.N. Sankar, Sankar B.N., Pillai
S.O., S.O. Pillai



Fybsc Physics Syllabus Mumbai University:

Applied Physics II (University of Mumbai) Sangeeta Rakesh Rana, This book aims to provide a complete coverage of topics to meet the needs of first year undergraduate engineering students as per revised syllabus of Mumbai University It enables students to develop an understanding of the basic concepts of the theory All topics are written in easy language and are put point wise For most of the students solving numerical is big problems this difficulty is simplified by including several solved numerical in every chapter Author s long experience in teaching the subject will ensure that the book will enthuse the students to assimilate the basic understanding of engineering physics and help them understand the concepts of various branches of engineering in the higher semesters Key Features Complete coverage of revised syllabus Numerous solved examples Previous years university questions included Simple diagrams and easy language **Applied Physics I (University of Mumbai)**

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Karkare,2009-01-01 The book follows the sequence of topics as prescribed in the revised course syllabus of engineering colleges affiliated to Mumbai University The contents of the book are explored to the full breadth of the field by including chapters on Optics Lasers Foundations of Quantum Mechanics Magnetic Materials and Circuits Biophysics and Vacuum Technology Every chapter reflects the latest work in the concerned field The book includes several solved numerical problems in every chapter to help students recognize and understand physical concepts thus strengthening their problem solving ability **S.Chand's Engineering Physics Vol-1** D.D.Mulajkar,2010 According to the syllabus of 1st semester

University of Mumbai **Syllabus for Physics 105, 106, 107** University of Chicago. Department of Physics,1934 **A**

Textbook Of Engineering Physics (as Per Anna University Syllabus) B.N. Sankar,2007-01-01 **Textbook of Engineering Physics: As Per Anna University Syllabus, Chennai (PB)** S. L. Kakani,2008-04-01 **Physics for B.Sc.**

Students Semester I: MJC-1 & MIC-1 | Introduction to Mathematical Physics & Classical Mechanics - NEP 2020

Bihar P S Hemne & C L Arora, This textbook has been designed to meet the needs of B Sc First Semester students of Physics as per Common Minimum Syllabus prescribed for Patna University and other Universities and Colleges under the recommended National Education Policy 2020 in Bihar The book comprises of Four Units Unit I start with Differential

Calculus which covers Geometric Meaning of Derivative Maxima and Minima Approximation of Derivative Partial Differentiation Approximation using Taylor and Binomial Series followed by Integral Calculus which covers Solution of First and Second Order Differential Equations Fundamentals of Integral Calculus Unit II covers Concept of Scalar and Vector Fields Gradient of Scalar Divergence and Curl of Vectors and their physical applications in physics such as Equation of Continuity Euler's equation of Motion Bernoulli's Theorem etc Unit III Fundamentals of Dynamics explains Inertial and Non Inertial Frame of Reference Rotating Frame of Reference Centrifugal and Coriolis Forces with their applications Unit IV covers important topics such as Centre of Mass Frame Two Dimensional Collisions in Physical Problems Relation Connecting Scattering Angle Recoil Angle and Final Velocities Rutherford Scattering the Central Forces and their equations Kepler's Laws of Planetary Motion and Satellites are explained thoroughly Short and Long Questions are incorporated at the end of each chapter to build confidence in every student for theory examination The practical part contains experiments on Measurements Random errors Dynamics of system of particles Elastic constants Acceleration due to gravity and Viscosity Oral questions are incorporated at the end of each experiment which are usually asked in Practical examination **A**

Textbook Of Engineering Physics-(As Per Kalasalingam University Syllabus) B.N. Sankar, Sankar B.N., Pillai S.O., S.O. Pillai, 2008-01-01

Physics for B.Sc. Students (Semester-II) As per NEP-UP Arora C.L. & Hemne P.S., This textbook has been conceptualised to meet the needs of B Sc Second Semester students of Physics as per Common Minimum Syllabus prescribed for all Uttar Pradesh State Universities and Colleges under the recommended National Education Policy 2020 Designed strictly as per the syllabus the first part of the textbook comprehensively covers the theory paper Thermal Physics Semiconductor Devices which discusses important topics such as laws of thermodynamics kinetic theory of gases theory of radiation DC AC circuits semiconductors diodes and transistors The second part of the textbook systematically covers the practical paper Thermal Properties of Matter Electronic Circuits to help students achieve solid conceptual understanding and learn experimental procedures S.Chand's Engineering Physics Vol-I D.D.Mulajkar, 2010 According to the syllabus of 2nd semester University of Mumbai **Syllabus for Physics 105, 106, 107 ...** University of Chicago, 1933 **Two Year B.Ed**

Programme of Makerere University, 1993 *Engineering Physics : Theory And Experiments : (as Per The New Syllabus,*

B. Tech. I Year Of U.P. Technical University) S.K. Srivastava, **Physics Syllabus for the Senior External Examination**

Queensland Studies Authority, Queensland. Board of Senior Secondary School Studies, 2000 *A Textbook Of Engineering*

Physics (As Per Anna University) B.N. Sankar, S.O. Pillai, 2008-01-01 Physical science University of Cambridge. Local

Examinations Syndicate. International Examinations, 1993* **Physics Syllabus** Great Britain. Joint Intelligence Bureau.

Division of Scientific Intelligence, 1956 **Physics Syllabus** Great Britain. Ministry of Defence. Joint Intelligence Bureau

(Division of Scientific Intelligence), 1956 Syllabus for Physics 173 Michael Oberlin Larson, University of Utah. Division of Continuing Education,

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