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APPLIED PHYSICS-I
1st/Common/2355/0351/5403/Nov'15

Duration: 3 hrs

M. Marks=75

SECTION A

Q.1.Fill in the Blanks:

1x5=5

- a. Plane angle and solid angle are the two _____ units in SI system.
- b. Speed is a _____ quantity and velocity is a _____ quantity.
- c. Rolling friction is _____ as compared to sliding friction.
- d. Change in length per unit original length is called _____ strain.
- e. Device most convenient for measuring temperature of a furnace is _____.

True & False:

1x5=5

- a. One Fermi is equal to 10^{-15} .
- b. Angular velocity is defined as rate of change of displacement of a body.
- c. When we lower a bucket into a well to fetch water, the work done will be negative.
- d. Meniscus of tap water in capillary tube is convex.
- e. Expansion during heating decreases the density of material.

Multiple Choice Questions:

1x5=5

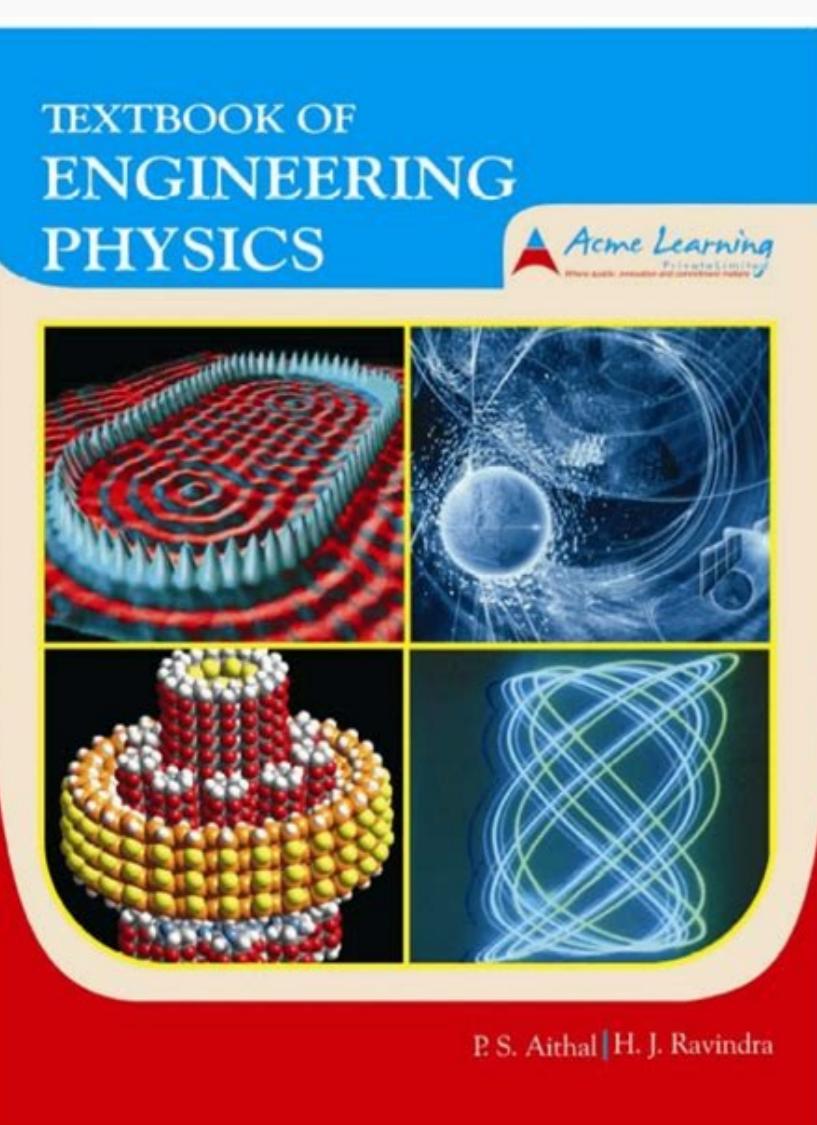
- I. Which of the following is a dimensionless constant quantity?
 - a) Young's modulus
 - b) Poisson's ratio
 - c) Bulk modulus
 - d) Modulus of rigidity
- II. A body is moving in a circular path. The acceleration of the body acts along the
 - a) circumference
 - b) radius
 - c) tangent
 - d) always zero
- III. When torque acting on a system is zero, which of the following is constant?
 - a) Force
 - b) linear momentum
 - c) angular momentum
 - d) velocity
- IV. Pressure is defined as force per unit
 - a) Length
 - b) volume
 - c) mass
 - d) area
- V. Which of the following temperature scales is independent of the physical properties of the substance used in the thermometer?
 - a) Celsius scale
 - b) Fahrenheit scale
 - c) Kelvin scale
 - d) Reumber scale

SECTION B

6x5=30

Q.2.Attempt any SIX Questions:

- I. Convert a velocity of 12 cm/s into km/hr using dimensional analysis.
- II. Impulsive force of 200 N acts on a body for 1 second. Find the change in linear momentum.
- III. It is easier to pull than to push a lawn roller. Why?
- IV. Show that for a freely falling body, mechanical energy remains constant.
- V. What is moment of inertia? Differentiate between inertia and moment of inertia.
- VI. What is capillary action or capillarity? Explain by giving at least five examples.
- VII. What is the force required to stretch steel wire 1cm^2 in cross-section to double its length?
Given $Y=2 \times 10^{11} \text{ N/m}^2$
- VIII. Convert 90° F into Kelvin scale.
- IX. Define free, forced and resonant vibrations.



POLYTECHNIC SECOND SEMESTER
(सभी ब्राचों के लिए)

APPLIED PHYSICS-2

(अनुप्रयुक्त भौतिकी-2)

सभी तैयारी शुरू कर दें SESSIONAL EXAM नजदीक है

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diploma Engineering students. Dutta, Dr. S. Most of the chapters have been written in a systematic way so that the basic concepts of fundamentals in applied physics are well understood by the students. Das Sanjay Sharma Sanjeeda Gupta Santosh Kumar Garg Santosh Kumar Garg and Dr. Ranjini Garg Santosh Kumar Garg and Rajeshwari Garg Saarabhu Shobha Aggarwal • Satish Kumar • Shivraj Kumar Sumit Kumar Gupta and Dr. Sushil Kumar Agrawal Syed Ali Hussain T.R. Banga and Nathu Singh T.R. Banga and S.C. Sharma T.R. Banga and T. Jha and Prof. Every effort has been made to make the topics presentable in a lucid manner . Table of Contents Unit-1 : Waves and Vibrations Unit-2 : Applications of Sound Waves Unit-3 : Principles of Optics Unit-4 : Electrostatics Unit-5 : Current Electricity Unit-6 : Semiconductor Physics Unit-7 : Modern Physics Experiments Previous Year PapersSKU PH10 Author Dr. R.C. Jain Edition 2014 ISBN NO. Doppler Effect7. Superconductivity9. Rs 150 / PieceGet Latest PriceMinimum Order Quantity: 1 Piece "Engineering Physics"- (Vol-II) is according to the syllabus of M.D University, Rohtak (Haryana) and Kurukshetra University Kurukshetra for the second semester of first year engineering students. Errors3. The book is divided into the ten chapters.

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