

# Physics

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(Chapter 1) (Units and Measurement) (Exercises)

(Class 11)

## Question 1.1:

Fill in the blanks

(a) The volume of a cube of side 1 cm is equal to ....m<sup>3</sup>

(b) The surface area of a solid cylinder of radius 2.0 cm and height 10.0 cm is equal to ... (mm)<sup>2</sup>

(c) A vehicle moving with a speed of 18 km h<sup>-1</sup> covers...m in 1 s

(d) The relative density of lead is 11.3. Its density is ....g cm<sup>-3</sup> or ...kg m<sup>-3</sup>.

## Answer 1.1:

(a)  $1 \text{ cm} = \frac{1}{100} \text{ m}$

Volume of the cube = 1 cm<sup>3</sup>

But,  $1 \text{ cm}^3 = 1 \text{ cm} \times 1 \text{ cm} \times 1 \text{ cm} = \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m} \times \left(\frac{1}{100}\right) \text{ m}$

$\therefore 1 \text{ cm}^3 = 10^{-6} \text{ m}^3$

Hence, the volume of a cube of side 1 cm is equal to 10<sup>-6</sup> m<sup>3</sup>.

(b) The total surface area of a cylinder of radius  $r$  and height  $h$  is

$S = 2\pi r (r + h)$ . Given that,  $r = 2 \text{ cm} = 2 \times 10 \text{ mm} = 20 \text{ mm}$

$h = 10 \text{ cm} = 10 \times 10 \text{ mm} = 100 \text{ mm} = 15072 = 1.5 \times 10^4 \text{ mm}^2$

$\therefore S = 2 \times 3.14 \times 20 \times (20 + 100)$

(c) Using the conversion,

$1 \text{ km/h} = \frac{5}{18} \text{ m/s}$

$18 \text{ km/h} = 18 \times \frac{5}{18} = 5 \text{ m/s}$

Therefore, distance can be obtained using the relation: Distance = Speed  $\times$  Time = 5  $\times$  1 = 5 m

Hence, the vehicle covers 5 m in 1 s.

(d) Relative density of a substance is given by the relation,

Relative density =  $\frac{\text{Density of substance}}{\text{Density of water}}$

Density of water = 1 g/cm<sup>3</sup>

Density of lead = Relative density of lead  $\times$  Density of water = 11.3  $\times$  1 = 11.3 g/cm<sup>3</sup>

Again,  $1 \text{ g} = \frac{1}{1000} \text{ kg}$

$1 \text{ cm}^3 = 10^{-6} \text{ m}^3$

$1 \text{ g/cm}^3 = \frac{10^{-3}}{10^{-6}} \text{ kg/m}^3 = 10^3 \text{ kg/m}^3$

$\therefore 11.3 \text{ g/cm}^3 = 11.3 \times 10^3 \text{ kg/m}^3$

## Question 1.2:

Fill in the blanks by suitable conversion of units

(a)  $1 \text{ kg m}^2 \text{ s}^{-2} = \dots \text{ g cm}^2 \text{ s}^{-2}$

(b)  $1 \text{ m} = \dots \text{ ly}$

(c)  $3.0 \text{ m s}^{-2} = \dots \text{ km h}^{-2}$

(d)  $G = 6.67 \times 10^{-11} \text{ N m}^2 (\text{kg})^{-2} = \dots (\text{cm})^3 \text{ s}^{-2} \text{ g}^{-1}$ .

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**DP Hallahan**



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**Student Study Guide & Selected Solutions Manual** Frank L. H Wolfs, 2008

**Student Solutions Manual and Study Guide to Accompany Physics for Scientists and Engineers** John R. Gordon, Raymond A. Serway, 2004 Written by John R Gordon Ralph McGrew and Raymond Serway the two volume manual features detailed solutions to 20 percent of the end of chapter problems from the text This manual also features a list of important equations concepts and answers to selected end of chapter questions

**Study Guide and Student Solutions Manual to Accompany Physics for Scientists and Engineers, by Serway** Raymond A. Serway, Steven Van Wyk, 1996

Student Study Guide and Solutions Manual Bo Lou, 2002-08

Student Study Guide and Solutions Manual for General Physics Morton M. Sternheim, 1986

**Student Study Guide and Selected Solutions Manual, Volume 2** Bo Lou, 2006-05

Study Guide, Student Solutions Manual John R. Gordon, 1998

*An Introduction to Physics* Harvard Project Physics, 1968

**Physics, , Student Study Guide** John D. Cutnell, Kenneth W. Johnson, 1997-09-04 Describes applications in medicine automobile features transportation home entertainment athletics household applications information processing detection devices camera technology and many more Contains numerous discussions and examples that focus on human physiology including muscle forces blood pressure the refraction of light by the eye and many others

**Student Study Guide to Accompany Fundamentals of Physics, Rev. Printing, Physics, 3d Ed., Parts 1 and 2** Stanley A. Williams, 1978

*Study Guide to Accompany Halliday and Resnick Fundamentals of Physics 2nd Ed. and Physics, Combined, 3rd Ed.* Stanley A. Williams, 1981-04-27 This popular book incorporates modern approaches to physics It not only tells readers how physics works it shows them Applications have been enhanced to form a bridge between concepts and reasoning

Study Guide, Student Solutions Manual Raymond A. Serway, John R. Gordon, 1998

*Calculus I* Jerrold Marsden, Alan Weinstein, 2012-12-06 The goal of this text is to help students learn to use calculus intelligently for solving a wide variety of mathematical and physical problems This book is an outgrowth of our teaching of calculus at Berkeley and the present edition incorporates many improvements based on our use of the first edition We list below some of the key features of the book Examples and Exercises The exercise sets have been carefully constructed to be of maximum use to the students With few exceptions we adhere to the following policies The section exercises are graded into three consecutive groups a The first exercises are routine modelled almost exactly on the exam ples these are intended to give students confidence b Next come

exercises that are still based directly on the examples and text but which may have variations of wording or which combine different ideas these are intended to train students to think for themselves c The last exercises in each set are difficult These are marked with a star and some will challenge even the best students Difficult does not necessarily mean theoretical often a starred problem is an interesting application that requires insight into what calculus is really about The exercises come in groups of two and often four similar ones

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*A+ Complete Study Guide* David Groth,Dan Newland,2002 In this proven Sybex study guide in depth coverage of every exam objective is provided The book includes practical information on essential hardware and OS related tasks with hundreds of challenging review questions in the book and on the CD

Calculus II Jerrold Marsden,Alan Weinstein,2012-12-06 The second of a three volume work this is the result of the authors experience teaching calculus at Berkeley The book covers techniques and applications of integration infinite series and differential equations the whole time motivating the study of calculus using its applications The authors include numerous solved problems as well as extensive exercises at the end of each section In addition a separate student guide has been prepared

**Introductory College Physics** Joseph F. Mulligan,David A. Jerde,1990-12

**Physics for Scientists and Engineers** Douglas C. Giancoli,1988 For the calculus based General Physics course primarily taken by engineers and science majors including physics majors This long awaited and extensive revision maintains Giancoli s reputation for creating carefully crafted highly accurate and precise physics texts *Physics for Scientists and Engineers* combines outstanding pedagogy with a clear and direct narrative and applications that draw the student into the physics The new edition also features an unrivaled suite of media and on line resources that enhance the understanding of physics

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