

Physics

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

(Class 11)

Question 1.10:

State the number of significant figures in the following:

- (a) 0.007 m^2
- (b) $2.64 \times 10^{24} \text{ kg}$
- (c) 0.2370 g cm^{-3}
- (d) 6.320 J
- (e) 6.032 N m^{-2}
- (f) 0.0006032 m^2

Answer 1.10:

- (a) The given quantity is 0.007 m^2 .
If the number is less than one, then all zeros on the right of the decimal point (but left to the first non-zero) are insignificant. This means that here, two zeros after the decimal are not significant. Hence, only 7 is a significant figure in this quantity.
- (b) The given quantity is $2.64 \times 10^{24} \text{ kg}$.
Here, the power of 10 is irrelevant for the determination of significant figures. Hence, all digits i.e., 2, 6 and 4 are significant figures.
- (c) The given quantity is 0.2370 g cm^{-3} .
For a number with decimals, the trailing zeroes are significant. Hence, besides digits 2, 3 and 7, 0 that appears after the decimal point is also a significant figure.
- (d) The given quantity is 6.320 J .
For a number with decimals, the trailing zeroes are significant. Hence, all four digits appearing in the given quantity are significant figures.
- (e) The given quantity is 6.032 Nm^{-2} .
All zeroes between two non-zero digits are always significant.
- (f) The given quantity is 0.0006032 m^2 .
If the number is less than one, then the zeroes on the right of the decimal point (but left to the first non-zero) are insignificant. Hence, all three zeroes appearing before 6 are not significant figures. All zeros between two non-zero digits are always significant. Hence, the remaining four digits are significant figures.

Question 1.11:

The length, breadth and thickness of a rectangular sheet of metal are 4.234 m , 1.005 m , and 2.01 cm respectively. Give the area and volume of the sheet to correct significant figures.

Answer 1.11:

Length of sheet, $l = 4.234 \text{ m}$

Breadth of sheet, $b = 1.005 \text{ m}$

Thickness of sheet, $h = 2.01 \text{ cm} = 0.0201 \text{ m}$

The given table lists the respective significant figures:

Quantity	Number	Significant Figure
l	4.234	4
b	1.005	4
h	2.01	3

Hence, area and volume both must have least significant figures i.e., 3.

Surface area of the sheet = $2(l \times b + b \times h + h \times l)$

$= 2(4.234 \times 1.005 + 1.005 \times 0.0201 + 0.0201 \times 4.234)$

$= 2(4.25517 + 0.0202005 + 0.0851034) = 2 \times 4.3604739 = 8.72 \text{ m}^2$

Volume of the sheet = $l \times b \times h = 4.234 \times 1.005 \times 0.0201 = 0.0855 \text{ m}^3$

This number has only 3 significant figures i.e., 8, 5, and 5.

Class 11 Physics Guide Vk Mehata

M Woodhall



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Publisher's Monthly ,2006 **Indian Book Industry** ,1996 *Indian Books in Print* ,2002 **Computational Science and Its Applications - ICCSA 2023** Osvaldo Gervasi,Beniamino Murgante,David Taniar,Bernady O. Apduhan,Ana Cristina Braga,Chiara Garau,Anastasia Stratigea,2023-06-29 The two volume set LNCS 13956 and 13957 constitutes the refereed proceedings of the 23rd International Conference on Computational Science and Its Applications ICCSA 2023 held at Lesvos Island Greece during July 3 6 2023 The 67 full papers and 13 short papers and 6 PHD showcase papers included in this volume were carefully reviewed and selected from a total of 283 submissions The contributions are grouped in topics which deal with General Track 1 Computational Methods Algorithms and Scientific Applications General Track 2 High Performance Computing and Networks General Track 3 Geometric Modeling Graphics and Visualization General Track 4 Advanced and Emerging Applications General Track 5 Information Systems and Technologies General Track 6 Urban and Regional Planning and PHD Showcase Papers Impex Reference Catalogue of Indian Books ,1960 **Frontiers in Materials Modelling and Design** Vijay Kumar,Surajit Sengupta,Baldev Raj,2012-12-06 It is about fifteen years since we started hearing about Computational Materials Science and Materials Modelling and Design Fifteen years is a long time and all of us realise that the use of computational methods in the design of materials has not been rapid enough We also know the reasons for this Materials properties are not dependent on a single phenomenon The properties of materials cover a wide range from electronic thermal mechanical to chemical and electro chemical Each of these class of properties depend on specific phenomenon that takes place at different scales or levels of length from sub atomic to visible length levels The energies controlling the phenomena also varies widely from a fraction of an electron volt to many joules The complexity of materials are such that while models and methods for treating individual phenomenon have been perfected incorporating them into a single programme taking into account the synergism is a formidable task Two specific areas where the progress has been very rapid and substantive are prediction of phase stability and phase diagrams and embrittlement of steels by metalloids The first three sections of the book contain papers which review the theoretical principles underlying materials modeling and simulations and show how they can be applied to the problems just mentioned There is now a strong interest in designing new materials starting from nanoparticles and clusters S. Chand's Principles Of Physics For XI V. K Mehta & Rohit Mehta, The Present book S Chand s Principle of Physics is written primarily for the students preparing for CBSE Examination as per new Syllabus Simple language and systematic development of the subject matter Emphasis on concepts and clear mathematical derivations Impex Supplement ,1960 **Whitaker's Book List** ,1989 Indian and Pakistan Year Book and Who's who Sir Stanley Reed,1982 Issues for 1919 47 include Who's who in India 1948 Who's who in India and Pakistan International Books in Print ,1990 *The Times of India Directory and Year Book Including Who's who* ,1984 **Physics Briefs** ,1990 *The Times of India Directory and Year Book Including Who's who* Sir Stanley Reed,1954 Issues

for 1919 47 include Who s who in India 1948 Who s who in India and Pakistan **Sustainable and Green Technologies for Water and Environmental Management** Mourade Azrour,Jamal Mabrouki,Azidine Guezzaz,2024-04-22 This book introduces a variety of the latest researches that are related to smart devices machine learning algorithms and the Internet of things that are applied for a sustainable environment These recent technologies cover all fields including agriculture transportation smart grid smart building and others In addition IoT has provided an innovative vision that is completely alternative to the conventional methodologies the new approach comes in the form of a single component system that can be connected to the network and can incorporate smart policies As a consequence the covered subjects encompass smart system design and control networking and machine learning environmental monitoring and surveillance smart meters authentication and authorization ensuring private data security software solutions and systems among others This book covers subjects that are related to the Internet of Things and smart used tools and methods for fighting environmental problems Therefore it discusses recent ideas that are not covered by other competitor books This book is different because it can be a reference for researchers professionals and students in both smart thinking and environmental domains Books

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web whale whale has a much shorter and thicker humerus radius and ulna much longer metacarpals whale fin needs to be longer to help in movement through water thumbs are not necessary as they don t need to pick up and grasp things cat curved humerus shorter thinner humerus and ulna and radius smaller metacarpals and phalanges

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web d have students discuss the answers for completeness and to hear about how others compare and contrast the fossil

animals to today's animals iii whale evolution timeline a explain to students that a timeline is a way to show or map something that has happened whether in recent times or in the past b show powerpoint whale evolution

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web jan 27 2023 description of the activity assignment for this written assignment the students outline the evolution of whales from land dwelling animals to aquatic beasts rather than an essay they produce a detailed outline of the major modifications that occurred during this transition such as hearing propulsion shape limbs and several

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web the evolution lab answer key one small step 6 it helps them to see and catch prey above them in the water 7 d 8 this tree or an equivalent 9 c origin of whales 10 a 11 b 12 sample answer because sharks and whales are not closely related and did not inherit these traits from a common ancestor whales evolved from tetrapods sharks

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web cetacea balaenopteridae humpback whale eschrichtiidae grey whale physeteridae sperm whale delphinidae dolphin monodontidae beluga whale phocoenidae porpoise sirenia dugongidae dugong trichechidae manatee proboscidea elephantidae elephant perissodactyla equidae horse tapiridae tapir rhinocerotidae rhinoceros artiodactyla

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web lab 5 activity 3 whale evolution time estimate 90 minutes the basics in this activity you will be constructing a phylogenetic tree using three different criteria habitat and diet skeletal morphology and dna sequencing before you begin go to nova labs and complete mission 1 training tree to learn how to build a phylogenetic tree

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web in this unit students will study the evolution of whales from four limbed land dwelling mammalian ancestors to modern two finned aquatic mammals through a virtual or in class simulation lab this activity will teach them more about how fossils homologous structures and dna analysis provide evidence for macroevolution evolutionary theory

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discoveries today students complete their simulated whale evolution lab using dna to search for the whale s closest living relative they will use classification groups and fossil homology to narrow the search down to a key family group

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web the evolution of whales the first thing to notice on this evogram is that hippos are the closest living relatives of whales but they are not the ancestors of whales in fact none of the individual animals on the evogram is the direct ancestor of any other as far as we know that s why each of them gets its own branch on the family tree

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