

Physics

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(Chapter 7) (Gravitation) (Exercises)
(Class 11)

Question 7.1:

Answer the following:

- (a) You can shield a charge from electrical forces by putting it inside a hollow conductor. Can you shield a body from the gravitational influence of nearby matter by putting it inside a hollow sphere or by some other means?
- (b) An astronaut inside a small space ship orbiting around the earth cannot detect gravity. If the space station orbiting around the earth has a large size, can he hope to detect gravity?
- (c) If you compare the gravitational force on the earth due to the sun to that due to the moon, you would find that the Sun's pull is greater than the moon's pull. (You can check this yourself using the data available in the succeeding exercises). However, the tidal effect of the moon's pull is greater than the tidal effect of sun. Why?

Answer 7.1:

- (a) No Gravitational influence of matter on nearby objects cannot be screened by any means. This is because gravitational force unlike electrical forces is independent of the nature of the material medium. Also, it is independent of the status of other objects.
- (b) Yes, if the size of the space station is large enough, then the astronaut will detect the change in Earth's gravity (g).
- (c) Tidal effect depends inversely upon the cube of the distance while, gravitational force depends inversely on the square of the distance. Since the distance between the Moon and the Earth is smaller than the distance between the Sun and the Earth, the tidal effect of the Moon's pull is greater than the tidal effect of the Sun's pull.

Question 7.2:

Choose the correct alternative:

- (a) Acceleration due to gravity increases/decreases with increasing altitude.
- (b) Acceleration due to gravity increases/decreases with increasing depth. (Assume the earth to be a sphere of uniform density).
- (c) Acceleration due to gravity is independent of mass of the earth/mass of the body.
- (d) The formula $-GMm(1/r_2 - 1/r_1)$ is more/less accurate than the formula $mg(r_2 - r_1)$ for the difference of potential energy between two points r_2 and r_1 distance away from the centre of the earth.

Answer 7.2:

- (a) Acceleration due to gravity decreases with increasing altitude.
- (b) Acceleration due to gravity decreases with increasing depth.
- (c) Acceleration due to gravity is independent of mass of the body.
- (d) The formula $-GMm(1/r_2 - 1/r_1)$ is more accurate than the formula $mg(r_2 - r_1)$ for the difference of potential energy between two points r_2 and r_1 distance away from the centre of the earth.

Explanation:

Acceleration due to gravity at depth h is given by the relation: $g_h = \left(1 - \frac{2h}{R_e}\right)g$

Where, R_e = Radius of the Earth g = Acceleration due to gravity on the surface of the Earth

It is clear from the given relation that acceleration due to gravity decreases with an increase in height.

Acceleration due to gravity at depth d is given by the relation: $g_d = \left(1 - \frac{d}{R_e}\right)g$

It is clear from the given relation that acceleration due to gravity decreases with an increase in depth.

Acceleration due to gravity of body of mass m is given by the relation: $g = \frac{GM}{R^2}$

Physics Chapter 1test

David Kirk



Physics Chapter 1test:

Radiation Oncology Murat Beyzadeoglu, Gokhan Ozyigit, Ugur Selek, 2012-04-12 Radiation Oncology MCQs for Exams ROME will cover the essential aspects of radiation physics radiobiology and clinical radiation oncology designed to meet the needs of a large scale of examinees Topics of this new book will be in the order of our previous Basic Radiation Oncology Springer 2010 with additional two new chapters Pediatric tumors and Rare tumors Benign Diseases making a total of 15 chapters and instead of old style question and answer format current MCQ examination pattern helpful for both oral exams and written exams is used in this comprehensive bedside recall book complementing the Basic Radiation Oncology 1st Edition

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There have been many important changes in the participation of women and men in American society over the past quarter century Tests play a role in those changes by providing evidence of the diverse achievement and proficiency of women and men They aid the learning process and reflect inequalities in opportunity to learn and participate In addition they provide useful information in considering what alternatives in education and work make most sense for individuals and influence views about groups of students educational programs and a wide range of issues For all of these reasons it is important that tests assess fairly and reflect accurately the ways young people are and are not achieving as well as desired The test performance of women and men is a research topic of historical interest and has received much attention in recent years Because of this increased interest there is a great deal of new research and data available The purpose of the study presented in this volume was to review this new information with two objectives in mind to clarify patterns of gender difference and similarity in test performance and related achievements and to see what implications those findings might have for fair assessment and as a corollary examine the assessment process as a possible source of gender differences This study is interested in tests used in education to assess developed knowledge and skill In order to gain a broader view of

gender similarity and difference the contributors looked at other types of measures and other characteristics of young women and men Their hope is to contribute to a firmer basis for insuring fairness in tests an objective which is particularly important as the field moves increasingly to new forms of assessment in which there is less experience **Science**

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