



ENTRANCE HUB ETHIOPIA

FRESHMAN COURSE
Student TextBook

Based on Ministry of Education
Modules

ENTRANCE HUB COMMUNITY

Freshman Course Online Teaching
For Grade 12 Learning Platform
For Grade 11 Learning Platform
For Grade 10 Learning Platform
For Grade 9 Learning Platform

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University Entrance Exam Preparations: Comprehensive guidance, tutorials, and practice materials for various university entrance exams, including EHEECE, NEAEA, and more.

Career Insights: Explore different career paths, job opportunities, and tips for personal and professional development.

For Entrance Hub Natural Science Class A Students

Physics Entrance Hub Mid Examianation

Prepared by Entrance hub Teachers Expert..

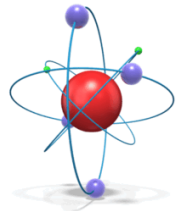
There are total 30 questions in this Mid Exam, 20 questions are Multiple choice and 10 questions are Workout. A total of 100% will be charged. YOU WILL BE ALLOWED TO WORK FOR 2:00 HOURS. So when the time is up, you will need to enter the Entrance Hub Platform with the prescribed entry form!

Choose the Correct Alternative using below Regarding Information

Entrance Hub 1st Round Mid Examination For EH Natural A Class



Physics Grade 12



Physics Chapter 1

Most Powerful Concepts

- Radar technology
- Radiation therapy
- Physics and Engineering
- Motion and astronomy

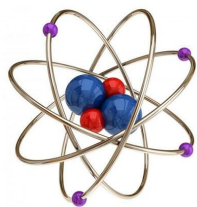


Physics Chapter 2

Most Powerful Concepts

- Projectile motion
- Horizontal Motion
- Vertical Motion
- Time of Flight
- Change of Frame

**Physics One of Interesting
Subject For Ever**



How to Grasp Physics Concepts

- Understanding the fundamental principles.
- Practice solving problems to reinforce your understanding
- Use visual aids like diagrams and charts.
- Try to relate concepts to real-life examples to make them more tangible.

1. What does spectroscopy study?

- a. Interaction between matter and gravity
- b. Interaction between matter and electromagnetic radiation
- c. Interaction between matter and sound waves
- d. Interaction between matter and electricity

2. Which physics concept is crucial for understanding how atoms form molecules?

- a. Newtonian mechanics
- b. Fluid dynamics
- c. Spectroscopy
- d. Thermodynamics

3. How does Newtonian mechanics relate to stable equilibrium in the human body?

- a. Center of mass must be outside the base for stability
- b. Center of mass directly over the base for stability
- c. Stability is unrelated to the center of mass
- d. Wider base leads to instability

4. In biology, what does the physics of fluid flow help understand?

- a. Circulation of air in the lungs
- b. Circulation of blood and blood pressure
- c. Metabolism in cells
- d. Mechanics of human motion

5. What type of wave is sound, according to the Part 4 Video lecture?

- a. Electromagnetic wave
- b. Mechanical wave
- c. Longitudinal wave
- d. Transverse wave

6. How do vocal cords produce sound?

- a. By vibrating due to gravitational forces
- b. By vibrating when immersed in fluid
- c. By vibrating as air passes through during exhalation
- d. By vibrating when heated

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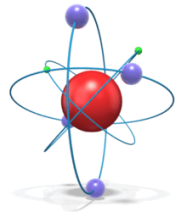
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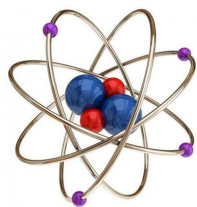


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7. Which part of the human body is impacted by the physics of sound waves?

- a. Liver
- b. Kidneys
- c. Eardrum
- d. Heart

8. What is the role of neurons in living organisms?

- a. Amplify sound vibrations
- b. Convert vibrations into electrical impulses
- c. regulate blood circulation
- d. Generate gravitational forces

9. What does the physics of electricity primarily influence in living organisms?

- a. Blood circulation
- b. Muscle movement
- c. Cellular respiration
- d. DNA replication

10. How are messages transmitted in the nervous system according to the Video Lectures?

- a. Through chemical reactions
- b. Through electrical pulses
- c. Through mechanical vibrations
- d. Through gravitational waves

11. What is the wavelength range of light in optical physics?

- a. 200 nm - 500 nm
- b. 300 nm - 600 nm
- c. 400 nm - 700 nm
- d. 500 nm - 800 nm

12. Which branch of physics involves the study of the solar system and galaxies?

- a. Astrophysics
- b. Optics
- c. Geophysics
- d. Thermodynamics

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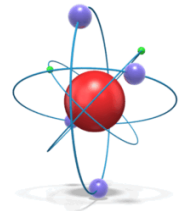
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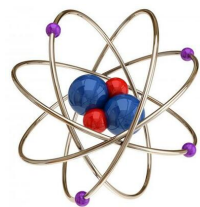


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13.How do astronomers measure the distance of astronomical Material using light?

- a. By analyzing gravitational forces
- b. By studying electromagnetic radiation
- c. By observing fluid dynamics
- d. By measuring sound waves

14.What physics concept is fundamental to Magnetic resonance Imaging (MRI)?

- a. Electromagnetism
- b. Gravity
- c. Fluid dynamics
- d. Sound waves

15.How does radar technology collect information about distant objects?

- a. By emitting and detecting sound waves
- b. By radiating and examining electromagnetic signals
- c. By measuring gravitational forces
- d. By analyzing fluid flow

WORKOUT

Workout

1. A ball is thrown from a field with a speed of 12.0 m/s at an angle of 45° with the horizontal. At what distance will it hit the field again? Take $g = 10.0 \text{ m/s}^2$.

2. A football is kicked with a velocity of 20 m/s at an angle of 45° with the horizontal. (a) Find the time taken by the ball to strike the ground. (b) Find the maximum height it reaches. (c) How far away from the kick does it hit the ground? Take $g = 10 \text{ m/s}^2$.

3. A stone is dropped from a balloon going up with a uniform velocity of 5.0 m/s . If the balloon was 50 m high when the stone was dropped, find its height when the stone hits the ground. Take $g = 10 \text{ m/s}^2$.

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