Physics (New Book) - 9th Class Physics English Medium Chapter 9 Preparation

Q1. What is the basis of laser technology.

Ans 1: Laser technology is based on the principles of atomic physics. It is widely used in medical diagnosis and treatment, metallurgy,industry, telecommunication and space exploration.

Q2. List the main steps of scietific method.

Ans 1: Indentify or recognice on issue or a problem.
Gather information through observation of its various aspects.
Propose on explamination or a guess work known as hypothesis.
Perform experiment or collect evidence to test the hypothesis.

Q3. Define Astrophysics

Ans 1: It deals with the physical properties and processes of celestical bodies and phenomena, for example the internction bertween the matter and energy in spcae to understand the univese as a whole.

Q4. State in your own words, what is scinece? Write its two main groups.

Ans 1: Science is a collective knowledge about the natural phenomena, processes and events occuring around us.

Q5. Define Geophysics

Ans 1: It appleis physical principle to the study of internal structure of the Earth, its magnetic and smic activity volcanoes etc. fields, sci

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Q6. Define Biophysics.

Ans 1: Some biological systems and processes are describe uisng the principales and technique of physics under this field of study example include the mechanics of biological structure physical properties of cells, tissue and organs.

Q7. Define Computation physics

Ans 1: It is abut the use of compatational techniques and methods to solve complex physical problems.

Q8. Define Medical Physics

Ans 1: Medical Physics
It applies physical principles to develop techniques and technolgies for health diagnosis and treatemetn, The examples include imaging techniques, such as X-rays ultra sound, MRI and CT scan and also radiation therapyfor cancer treatmetn.

Q9. Define Mechanics

Ans 1: It is a study of motion oand teh physical effects which infuenc motion. It is based on Newton's laws of motion and gravitation and often called classicial mechanics.

Q10. Define Biophysics

Ans 1: Some biological systems and processes are described uing the principles and technique of physics under this field of study, Examples include the mechancis of biological structures, physical properties of cells, tissuesand organs.
