

First exam

During the seventeenth century, the modern science of physics started to emerge and become a widespread tool used around the world. Many prominent people contributed to the build up of this fascinating field and managed to generally define it as the science of matter and energy and their interactions. However, as we know, physics is much more than that. It explains the world around us in every form imaginable. The study of physics is a fundamental science that helps the advancing knowledge of the natural world, technology and aids in the other sciences and in our economy.

In the natural world, physicists find new discoveries constantly. Some of these discoveries include the study of motion and forces. The well-known scientist, Isaac Newton, came up with the three laws of motion, which state rules and facts about the movement of an object. A body in motion will remain in motion at a constant speed and direction unless an outside force acts upon it. The acceleration of an object depends on the mass of the object and the amount of force applied. Finally, the third law of motion states that when one object applies a force to another, the other object applies the same amount of force back to the first object, but in opposite directions. With these laws of motion, we can understand in detail how our world works. Also, that the movement of an object is more complex than a simple push. This discovery is taught to students all over the world because of its great importance and will continue to enhance the knowledge of the mystery of our earth.

Questions:

Part one:

1/ The text is about: (1pt)

A/ the three laws of motion B/ the modern science of physics C/ the importance of physics

2/ Say where the following statements are true or false according to the text (3pts)

A/ without physics life would be so difficult to understand.

B/ many eminent people contributed to the build up of this field.

C/ a body in a motion will remain in motion at a steady speed and direction except if an outside force acts onto it.

3/ Answer the following questions about the text: (2pts)

A/ who came up with the three laws of motion?

B/ does a body stay in motion at a constant speed and direction if an outside force acts upon it?

3/ Match each word with its definition: (2pts)

words	definitions
1/ physics	a/ the flow of electrical power or charge.
2/ chemistry	b/ the repair and maintenance vehicle engines and other machinery.
3/ mechanic	c/ the study of matter and its reactions and properties.
4/ electricity	d/ the study of forces and motion.

Part two:

1/ complete the following sentences :(2pts)

A/ we have to finish the work.

B/ the work.....

A/ science has facilitated our lives.

B/ our lives.....

2/ ask questions on the underlined words: (2pts)

1/ we always study nuclear physics on Mondays

2/ I am never asked to speak at public meetings.

3/ find in the text :(2pts)

A/ a sentence contains a subordinating conjunction.

B/ a conjunction word that expresses contrast.

Part three:

Choose one of these to answer :(fill in the blanks or summary)

1/ fill in the blanks: (6pts)

Radiation- nuclear- - protons- energies- atomic- particles

This branch of physics deals with the structure of the atomic nucleus and the from unstable nuclei. About 10,000 times smaller than the atom, the constituent of the nucleus, ...and neutrons, attract one another so strongly by the forces that nuclear are approximately 1,000,000 times larger than typical energies.

2/ summarize the text by using your own words. (6pts)

Best of luck

Correction of the first exam (second year students/ all groups)

Answers:

Part one: the text is about: the importance of physics (1pt)

2/ a → true

b → true

c → true (3pts)

3/ answering the questions: (2pts)

a/ Isaac Newton came up with the three laws of motions.

b/ no, it doesn't.

4/ words match: (2pts)

physics → d

chemistry → c

mechanic → b

electricity → a

Part two:

1/ complete the following sentence: (active and passive voice) (2pts)

a/ the work has to be finished by us

b/ our lives have been facilitated by science.

2/ asking questions on the underlined words: (2 pts)

1/ how often do we study nuclear physics on Mondays.

2/ how often am I asked to speak at public meetings.

3/ I find in the text: (2pts)

1/ a subordinating conjunction sentence → we have many of them in the text such as: sentences that include: because of/ as/ unless/ that/ when. *which.*

2/ a conjunction word expresses contrast → however / but .

Part three:

Choose one of these to answer (fill in blanks or summary)

1/ Fill in the blanks (6pts)

1/ radiation 2/ particles 3/ protons 4/ nuclear 5/ energies 6/ atomic

2/ summary (6pts)

(Summary includes the logical form of ideas/ the most important ideas of the text/ no written mistakes).