

2012 grade 12 physics exam papers p n g

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2012 Grade 12 Physics Exam Papers P N G: Questions and Answers

The 2012 Grade 12 Physics exam papers for Papua New Guinea (PNG) tested students' understanding of a range of physics concepts.

Section A: Multiple Choice

- **Question 1:** Which of the following is a vector quantity?

- A. Distance
- B. Velocity
- C. Mass
- D. Time

- **Answer:** B. Velocity

- **Question 2:** The acceleration due to gravity on Earth is approximately:

- A. 9.8 m/s^2
- B. 19.6 m/s^2
- C. 29.4 m/s^2
- D. 39.2 m/s^2

- **Answer:** A. 9.8 m/s^2

Section B: Short Answer

- **Question 3:** Define the term "power".
- **Answer:** Power is the rate at which energy is transferred or transformed.
- **Question 4:** State the principle of conservation of energy.
- **Answer:** The total energy of an isolated system remains constant.

Section C: Numerical Problems

- **Question 5:** A car of mass 1500 kg is traveling at a speed of 12 m/s. Calculate its kinetic energy.
- **Answer:** 108,000 J
- **Question 6:** A force of 50 N is applied to an object for 10 s. If the object moves a distance of 50 m, calculate the work done.
- **Answer:** 2500 J

Section D: Extended Response

- **Question 7:** Explain how a transformer works.
- **Answer:** A transformer consists of two coils of wire, known as the primary and secondary coils. When an alternating current is applied to the primary coil, it creates a changing magnetic field, which in turn induces an alternating current in the secondary coil. The ratio of the number of turns in the primary coil to the number of turns in the secondary coil determines the

voltage ratio.

- **Question 8:** Discuss the applications of nuclear energy.

- **Answer:** Nuclear energy is used to generate electricity in nuclear power plants, power submarines, and spacecraft. It is also used in medical imaging, cancer treatment, and food preservation.

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