

## Physics 2 Final Exam Practice

### Question 1: Electric Fields and Forces

Calculate the electric force between two charges of  $+3 \mu\text{C}$  and  $-3 \mu\text{C}$  that are 0.2 meters apart in a vacuum.

### Question 2: Electric Potential

A point charge of  $2 \mu\text{C}$  is placed at a point in space where the electric potential is 500 V. Calculate the potential energy of this charge.

### Question 3: Capacitors

A parallel plate capacitor with plates of area  $1 \text{ m}^2$  and separation of 0.01 m is connected to a 12 V battery. If the dielectric constant of the material between the plates is 5, calculate the capacitance and the charge stored.

### Question 4: DC Circuits

A circuit consists of a  $10 \Omega$  resistor, a  $20 \Omega$  resistor, and a 6 V battery all connected in series. Calculate the total current flowing through the circuit and the voltage across each resistor.

### Question 5: Magnetism and Induction

A loop of wire with an area of  $0.5 \text{ m}^2$  and 10 turns is placed in a magnetic field that changes uniformly from 0 T to 2 T in 2 seconds. The plane of the loop is perpendicular to the magnetic field. Calculate the induced emf in the loop.

### Question 6: AC Circuits

An AC circuit contains a  $100 \Omega$  resistor and a 0.5 H inductor connected in series to a 120 V, 60 Hz source. Calculate the impedance of the circuit and the RMS current flowing through it.

### Question 7: Optics

A beam of light strikes a glass surface at an angle of 30 degrees. If the index of refraction of air is 1.00 and that of glass is 1.5, calculate the angle of refraction.

### Question 8: Modern Physics

Explain the photoelectric effect and derive the equation relating the kinetic energy of the ejected electrons to the frequency of the incident light, given the work function of the material.

### Question 9: Quantum Mechanics

Describe the significance of the Heisenberg Uncertainty Principle and provide an example of how it limits our ability to measure certain pairs of physical properties precisely.

### Question 10: Special Relativity

Discuss the concept of time dilation and provide an example involving a hypothetical spacecraft traveling at a significant fraction of the speed of light.

# Physics 2 Final Exam

**Michigan Schoolmasters' Club**



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