

Fundamentals of Physics Test Paper

Class: FYBSc

University: Pune University

Marks: 15

Time: 30 minutes

Section A: Multiple Choice Questions (4 Marks)

Choose the correct option for each question. Each question carries 1 mark.

1. Which of the following is Newton's First Law of Motion?

- a) $F = ma$
- b) Every action has an equal and opposite reaction
- c) An object remains at rest or in uniform motion unless acted upon by an external force
- d) Force is equal to the change in momentum per unit time

2. What is the unit of electric charge?

- a) Joule
- b) Coulomb
- c) Newton
- d) Tesla

3. Which of the following phenomena supports the wave theory of light?

- a) Photoelectric effect
- b) Compton scattering
- c) Diffraction
- d) Nuclear fusion

4. In which of the following conditions does a body experience free fall?

- a) When there is no friction
- b) When only gravity is acting on the body
- c) When there is an upward force balancing the weight
- d) When the body is in a vacuum chamber

Section B: Short Answer Questions (2 Marks each)

Answer the following questions briefly.

5. Define escape velocity. Derive the expression for the escape velocity of an object from Earth's surface.

Fundamentals Of Physics Tests

United States Air Force Academy

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the United States Air Force Academy text.

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