



STUDY BEES

OFFICIAL

PRESENTS

PHYSICS HSSC-II

GUESS PAPER 2026

Physics Guess Paper 2026 | FBISE

100% AUTHENTIC

ALL CHAPTERS

HSSC-II

FBISE PATTERN

- CHAPTERS COVERED -

BOARD

FBISE Federal

CLASS/LEVEL

HSSC-II

EXAM YEAR

2026



LONG Q

SHORT Q

SHORT+LONG

NUMERICALS

SEPARATE

1 Gravitation

LONG QUESTIONS

- Newton's Law of Universal Gravitation
- Gravitational Potential

SHORT + LONG

- Gravitational Field Strength
- Orbital Velocity
- Geostationary Satellites
- Value of 'g' with Altitude

NUMERICALS

- $g = GM/r^2$, $F = Gm_1m_2/r^2$, $U = -GMm/r$

SEPARATE TOPIC

- Artificial Satellites

2 Statistical Mechanics & Thermodynamics

LONG QUESTIONS

- Pressure Exerted by Gas Molecules
- RMS Speed of Ideal Gas

SHORT QUESTIONS

- Temperature in Terms of Average Translational KE of Gas Molecules
- Pressure in Terms of Average KE

3 Oscillations (SHM)

SHORT QUESTIONS

- Terms Related to Oscillation
- Frequency and Time Period of an Oscillating Mass-Spring System
- Phase

- Application of Resonance in Daily Life
- Difference between Free, Forced, Damped Oscillations
- Graphical Representation of Displacement, Velocity & Acceleration

◆ LONG QUESTIONS

- Simple Pendulum
- Energy Conservation in SHM
- Simple Harmonic Motion in a Mass Attached to Spring
- Uniform Circular Motion & SHM

◆ SHORT + LONG

- Damped Oscillations + Applications
- Resonance

4 Diffraction and Interference

◆ SHORT QUESTIONS

- Interference of Water Waves by Experiment of Ripple Tank
- Application of Diffraction Grating

◆ SHORT + LONG

- Interference of Light Waves by Young's Double Slit Experiment
- Path Difference
- Derivation of Path Difference

◆ NUMERICALS

- Path Difference Numericals (Very Important)
- Diffraction Grating and $\sin(\theta) = m\lambda$ — Numerical

◆ LONG QUESTIONS

- Diffraction of Light through Diffraction Grating

5 Electric Potential & capacitor

◆ SHORT + LONG

- Electric Potential, Energy and Electric Potential
- Electric Potential due to Point Charge
- Capacitance of a Parallel Plate Capacitor

- Combination of Capacitors

◆ SHORT QUESTIONS

- Energy Stored in a Capacitor

◆ LONG QUESTIONS

- Electric Potential due to Point Charge
- Energy Stored in Capacitor

◆ NUMERICALS

- Combination of Capacitors; C_{eq}

6 Alternating Current (AC)

◆ SHORT QUESTIONS

- AC Terminologies
- RMS Value of AC

◆ LONG QUESTIONS

- Half Wave and Full Wave Rectification
- AC through a Resistor
- AC through an Inductor
- AC through a Capacitor

◆ SHORT + LONG

- Impedance and All Types of RL Series (Very Important)
- RC-Series Circuit

◆ NUMERICALS

- Impedance Numerical, Current Voltage Numerical

7 Modern Physics — Quantum & Photons

◆ LONG QUESTIONS

- Electromagnetic Radiation Has a Particle Nature
- Photonic Model of Light — Explain and Apply to Solve Problems
- Prove that Photon Has Momentum
- Compton Effect

- Photoelectric Effect

◆ SHORT + LONG

- Pair Production
- Pair Annihilation
- Heisenberg Uncertainty Principle
- Discrete Energy Levels in an Atom and Its Spectra
- Wave-Particle Duality — Numerical: $\lambda = h/mv$

◆ SHORT QUESTIONS

- Planck's Quantum Theory

8 Nuclear Physics

◆ SHORT + LONG

- Binding Energy per Nucleon
- Half-life and Rate of Decay
- Nuclear Reactor

◆ SHORT QUESTIONS

- Particle Decay
- Mass Defect & Binding Energy
- Binding Energy Curve
- Relationship between Decay Constant and Half-life
- Enrichment of Uranium
- Table 22.3 & Table 22.4

◆ LONG QUESTIONS

- Nuclear Fusion and Nuclear Fission

◆ NUMERICALS

- $E = mc^2$
- Half-life Numerical

9 Cosmology

◆ SHORT + LONG

- Luminosity and Radiant Flux Intensity

- Black Body Radiations, Wien's Displacement Law

◆ SHORT QUESTIONS

- Redshift and Speed (Red Shift / Blue Shift)
- Difference between Absorption and Emission Spectra

10 Earth & Climate

◆ SHORT + LONG

- Earth's Climate Change, Atmosphere, Air, and Different Layers of Atmosphere
- Hydrosphere
- What is Earth's Climate & Its Components?
Coriolis Effect

◆ SHORT QUESTIONS

- Climate Inertia
- Energy Budget of Earth

11 Medical Imaging & Ultrasonics

◆ LONG QUESTIONS

- X-Rays

◆ SHORT QUESTIONS

- Piezoelectric Effect
- Application of Ultrasonics

26 Chapter 26 — Formative Topics

◆ SHORT + LONG

- All Formative Topics (as per syllabus)

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