

TAYARRI

FREE PAST PAPERS

Physics	Tenth Class, 2025 Gujranwala Board	Group - I
Time: 15 Minutes	Objective	Marks: 12

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of the relevant question number. Use marker or pen to fill in the circles. Cutting or filling of two or more circles will result zero mark in that question.

- Human ear drum vibrates in one second
(A) 2000 times (B) 200,000 times
(C) 20,000 times (D) 200 times
- Speed of sound in air is
(A) 1246 kmh^{-1} (B) 1346 kmh^{-1}
(C) 1446 kmh^{-1} (D) 1546 kmh^{-1}
- Intensity of light lamps connected in series as more lamps are added
(A) Increases (B) Decreases
(C) Remains same (D) Cannot be predicted
- Relation between v , f , λ is
(A) $v f = \lambda$ (B) $v = f \lambda$
(C) $v = \frac{\lambda}{f}$ (D) $f = v \lambda$
- A converging mirror with a radius 20cm creates a real image 30cm from mirror. What is the object distance?
(A) -5.0 cm (B) -7.5 cm
(C) -15 cm (D) -20 cm
- Number of neutrons in ${}_{92}^{238}\text{U}$
(A) 92 (B) 146
(C) 330 (D) 238
- Equation of AND gate is
(A) $X = \overline{A.B}$ (B) $X = A + B$
(C) $X = \overline{A.B}$ (D) $X = \overline{A + B}$
- The particles emitted from hot surface of cathode are
(A) Positive ions (B) Free electrons
(C) Negative ions (D) Protons
- Audible frequency range for a person is
(A) 10 Hz – 10 kHz (B) 20 Hz – 20 kHz
(C) 25 Hz – 25 kHz (D) 30 Hz – 30 kHz
- The direction of induced emf is in accordance with conservation of
(A) Mass (B) Charge
(C) Momentum (D) Energy
- We can get information of everything through
(A) Books (B) Teachers
(C) Computer (D) Internet
- Two small charged spheres are separated by 2mm, the greatest attractive force will be
(A) $+1q$ and $+4q$ (B) $-1q$ and $-4q$
(C) $+2q$ and $-2q$ (D) $+2q$ and $+2q$

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Physics	Tenth Class, 2025 Gujranwala Board	Group - I
Time: 1:45 Hours	Subjective	Marks: 48

Note: Section I is compulsory. Attempt any TWO (2) questions from Section II.

SECTION - I

- Q.2 Write short answers to any FIVE (5) questions:** 10
- Define time period and frequency.
 - Define electromagnetic waves and write down the names of its types.
 - If the length of simple pendulum is doubled, what will be the change in its time period?
 - Draw symbol of NOT gate and write down its truth table.
 - Write down definition of analogue and digital quantities.
 - Draw electric field lines between two positive point charges.
 - Write down any two uses of capacitors.
 - Define electric field and electric field intensity.
- Q.3 Write short answers to any FIVE (5) questions:** 10
- Describe briefly that sound is produced by a vibrating body.
 - Calculate the frequency of sound wave of speed 340 ms^{-1} and wavelength 0.5m .
 - Define Acoustic Protection.
 - Define Galvanometer. How it is connected in a circuit?
 - Can a current flow in a circuit without potential difference?
 - Define resistance and its unit.
 - What is the difference between Compact Disk and Floppy Disk?
 - What are Browsers? Write down two examples.
- Q.4 Write short answers to any FIVE (5) questions:** 10
- Define reflection of light and write down the names of its types.
 - State Shell's law. Write down its formula.
 - What is meant by Accommodation?
 - How can the total force acting on the armature in D.C motor be increased?
 - Define Lenz's Law.
 - Describe the Right Hand Grip Rule.
 - The C-14 : C-12 ratio in a fossil bone is found to be $1/4^{\text{th}}$ that of the ratio in the bone of a living animal. The half life of C-14 is 5730 years. What is the approximate age of fossil?
 - What is meant by Nuclear Fusion?

SECTION - II

- Q.5 (a)** What is Coulomb's Law? Describe in detail. 4
- (b)** A wooden bar vibrating into the water surface in a ripple tank has a frequency of 12Hz. The resulting wave has a wavelength of 3cm. What is the speed of the wave? 5
- Q.6 (a)** Write down a note on cell phone and its working with network diagram. 4
- (b)** A ship sends out ultrasound that returns from the seabed and is detected after 3.42s. If the speed of ultrasound through seawater is 1531ms^{-1} , what is the distance of the seabed from the ship? 5
- Q.7 (a)** Define and explain total internal reflection, also draw [the printed source ends here]

The scan of this paper is cut off at this point. Q.7(a) breaks off mid-sentence and Q.7(b) is not present on the sheet. Everything above is complete.

Notes on this transcription

- The subjective half of this paper is incomplete. The printed sheet is cut off part-way through Q.7(a); Q.7(b) is missing. The objective half and Sections I & II up to that point are complete. Send a fuller scan of the last page and this PDF can be completed.
- Typeset by Tayarri from the printed 2025 Gujranwala Board paper. Question wording, numbering and option order follow the source exactly. No answer key is included.
- The source is an "UNSOLVED" guide reprint rather than an original board sheet, so no paper code is printed on it.
- The first objective item is printed as "1.1" in the source; the items are numbered 1-12 here, following the printed sequence.
- Q.4(ii) (subjective):** the source prints "Shell's law" for Snell's law. Kept as printed.

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Physics	Tenth Class, 2025 Gujranwala Board	Group - II
Time: 15 Minutes	Objective	Marks: 12

Note: You have four choices for each objective type question as A, B, C and D. The choice which you think is correct, fill that circle in front of the relevant question number. Use marker or pen to fill in the circles. Cutting or filling of two or more circles will result zero mark in that question.

- The power of lens is equal to
(A) $\frac{4}{f}$
(B) $\frac{3}{f}$
(C) $\frac{1}{f}$
(D) $\frac{2}{f}$
- The process by which electrons are emitted by a hot metal surface is known as
(A) Boiling
(B) Evaporation
(C) Conduction
(D) Thermionic Emission
- The presence of a magnetic field can be detected
(A) Small mass
(B) Stationary positive charge
(C) Magnetic compass
(D) Stationary negative charge
- Types of nuclear mutation are
(A) 5
(B) 3
(C) 2
(D) 4
- Isotopes are atoms of same element with different
(A) Atomic number
(B) No. of protons
(C) Atomic mass
(D) No. of electrons
- For an ideal transformer
(A) $P_p > P_s$
(B) $P_p < P_s$
(C) $P_s \neq P_p$
(D) $P_p = P_s$
- An example of longitudinal wave is
(A) Sound waves
(B) Light wave
(C) Radio wave
(D) Water wave
- An electric current in a Conductor is due to flow of
(A) Positive ions
(B) Negative ions
(C) Positive charges
(D) Free Electrons
- In computer terminology information means
(A) Processed data
(B) Any data
(C) Raw data
(D) Large data
- Waves transfer
(A) Energy
(B) Frequency
(C) Wavelength
(D) Velocity
- The index of refraction depends on
(A) The focal length
(B) The speed of light
(C) The image distance
(D) The object distance
- A positive electric charge
(A) Attracts other positive charge
(B) Repels other positive charge
(C) Attracts a neutral charge
(D) Repels a neutral charge

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Time: 1:45 Hours	Subjective	Marks: 48

Note: Section I is compulsory. Attempt any TWO (2) questions from Section II.

SECTION - I

- Q.2 Write short answers to any FIVE (5) questions:** 10
- Write down the formula of spring constant and its S.I units.
 - Define restoring force.
 - Write down two features of simple harmonic motion.
 - Define electric intensity and write down its S.I unit.
 - Define electric potential and write down its S.I unit.
 - Write down two uses of capacitors.
 - What is the difference between ADC and DAC?
 - Define electronics.
- Q.3 Write short answers to any FIVE (5) questions:** 10
- How is sound produced?
 - Define quality of sound.
 - What is meant by silent whistle?
 - Define current and write down its formula.
 - What is meant by emf.
 - Find R if $V = 60\text{ V}$ and $I = 2\text{ A}$.
 - What do you know about radio waves?
 - Define information.
- Q.4 Write short answers to any FIVE (5) questions:** 10
- Write down the laws of reflection.
 - Define refractive index.
 - What is pinhole camera?
 - Describe Fleming's Left Hand Rule.
 - If a transformer is used to supply voltage to a 12 V model train which draws a current of 0.8 A. Calculate the current in the primary coil if the voltage of AC source is 240 V.
 - What is the basic difference between a Generator and a Motor?
 - Write down definitions of Atomic Number and Atomic Mass Number.
 - Define Isotopes and write down one example.

SECTION - II

- Q.5 (a)** What is ripple tank? Explain refraction of waves with reference to ripple tank. 4
- (b)** A point charge of $+2\text{ C}$ is transferred from a point at potential 100V to a point at potential 50V. What would be the energy supplied by the charge? 5
- Q.6 (a)** Define Loudness of sound? On what factors does the loudness of sound depends upon? Explain. 4
- (b)** By applying a potential difference of 10V across a conductor, a current of 1.5A passes through it. How much energy would be obtained from the current in 2 minutes? 5
- Q.7 (a)** Define Fission Reaction and describe the Nuclear Fission Reaction in Uranium-235. 4
- (b)** An object 10cm in front of a convex mirror forms an image 5cm behind the mirror. What is the Focal length of the mirror? 5

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- Q.4 (objective):** the source reads "Types of nuclear mutation are", apparently for nuclear radiation. Kept as printed.