

Model Paper for Physics 10th (Fresh)

Total Time: 3 hrs

Total Marks: 65

SECTION – A

Time: 15 Minutes

Marks: 12

Q.1. Write the correct option i.e. A,B,C and D in the empty box provided opposite to each part.

- i. In which of the following frequency range is ultrasound.....
(a) 2 KHz 10 KHz (b) 21 KHz 30KHz (c) 2 KHz 20 KHz (d) 11 KH 20 KHz
- ii. A convex lens is of focal length 10cm. Its power is.....
(a) 20 dioptre (b) 15 dioptre (c) 50 dioptre (d) 10 dioptre
- iii. One volt is
(a) One JC^{-1} (b) One WC (c) One NC^{-1} (d) One WC^{-1}
- iv. Which of the following represent an ohm.....
(a) VA^{-1} (b) JS^{-1} (c) WA^{-1} (d) JC^{-1}
- v. Lenz's law follows the law of conservation of
(a) Mass (b) Charge (c) Energy (d) Momentum
- vi. Which of the following is not a correct formula.....
(a) $\angle i = \angle r$ (b) $f = R/2$ (c) $n = \sin \angle i / \sin \angle 2r$ (d) $M=q/p$
- vii. Which type of wave is longitudinal
(a) Light wave (b) Radio Wave (c) Sound wave (d) Water wave
- viii. The frequency of A.C in Pakistan is
(a) 40 Hz (b) 50 Hz (c) 60 Hz (d) 70 Hz
- ix. Which one of the following is also called inverter
(a) NAND gate (b) OR gate (c) NOT gate (d) NOR gate
- x. Is really a versatile radio.....
(a) Cell phone (b) Computer (c) Telephone (d) Fax Machine
- xi. Which nuclide has a mass no of 8
(a) ${}^2He^6$ (b) ${}^4Be^8$ (c) ${}^7N^5$ (d) ${}^8O^{16}$
- xii. Radio active nuclei ${}^{123}Y$ decay to give ${}^{119}Z$ what types of radian is being emitted.....
(a) α Particle only (d) β Particles only (c) γ Particles only (d) Both A and B

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Note: Time allowed for Section B and Section C is 2 Hours and 45 Minutes.

SECTION "B"

Marks: 32

Q.2. Attempt any Eight parts. Each part carries equal marks.

- i. Why sound cannot be heard on moon?
- ii. How bats able to fly at night without colliding with other objects?
- iii. Give at least three uses of concave mirror.
- iv. Define **snell's law** of refraction.
- v. What is meant by electrostatic induction?
- vi. State how the resistance of wire would change if
(i) Its Length **is increased** (ii) Its diameter **is decreased**.
- vii. What would happen if the primary winding of a transformer is connected to a battery?
- viii. What is Fleming left hand rule?
- ix. Name four digital devices that are commonly used in everyday life.
- x. What do you mean by graphic designing?
- xi. Which type of charge is present on?
(a) α _ Particle (b) β _ Particle (c) γ _ Particles

SECTION "C"

Marks: 21

Note: Attempt any THREE questions. Each question carries equal marks.

- Q.3. (a) Write a detailed note on ultrasonic. Describe different applications on ultrasonic.
(b) When a $+5\mu\text{C}$ charge is placed at a point in an electric field it experience a force of 10^{-6} N. Find the value of electric intensity at that point.
- Q.4. (a) State and explain Ohm's law. What are its limitations?
(b) An electric Iron of resistance 15Ω takes a current of 4A. Calculate the thermal energy in joules **devolved** in 25 seconds.
- Q.5. (a) Sketch and describe A.C generator.
(b) How many turns are required on the secondary of a 240 Volts **mains** transformer which has 4000 turns on the primary and is to operate 6 volt lamp.
- Q.6. (a) What is a radio Isotope? How radio isotope help us in our daily life.
(b) Find the energy produce from 400 kg of uranium if it is completely changed into energy.