



PHYSICS SSC-II

Time allowed: 2:40 Hours

Total Marks Sections B and C: 53

NOTE:- Answer any eleven parts from Section 'B' and any two questions from Section 'C' on the separately provided answer book. Use supplementary answer sheet i.e. Sheet-B if required. Write your answers neatly and legibly.

SECTION – B (Marks 33)

Q. 2 Answer any ELEVEN parts. The answer to each part should not exceed 3 to 4 lines. (11 x 3 = 33)

- (i) Derive the equation $v = f\lambda$.
- (ii) What is the difference between Mechanical waves and Electromagnetic waves?
- (iii) Define Pitch of sound. Why are the sounds of ladies and children shriller than that of men?
- (iv) Calculate the wavelength of sound produced by a tuning fork of frequency 512 Hz, whereas the speed of sound is 340 ms^{-1} .
- (v) Why is the concave mirror used for shave or make up?
- (vi) The real depth of a swimming pool is 2 metre. What is the apparent depth of the pool if the refractive index of water is 1.33?
- (vii) Why is a metallic chain of a petrol supply tanker made to roll on the road?
- (viii) The capacitance of a parallel plate capacitor is 100 pF. If the potential difference between its plates is 50 volts then find the quantity of charge on its plates.
- (ix) State Ohm's law. What are its limitations?
- (x) Define the following:
 - a. Magnetic flux
 - b. Faraday's law of Electromagnetic induction
- (xi) Write down the uses of radio-isotopes in the field of Agriculture.
- (xii) Find the energy produced from 20 kg of carbon if it is completely changed into energy.
- (xiii) How is a P-type semi-conductor prepared?
- (xiv) What is Central Processing Unit (CPU)?
- (xv) What is NOR gate?

SECTION – C (Marks 20)

Note: Attempt any TWO questions. All questions carry equal marks. (2 x 10 = 20)

- Q. 3**
- a. Define Intensity of sound. Derive an equation for sound level using Weber Fechner law. (04)
 - b. The time period of a simple pendulum is 2 second. What will be its length on the Earth? What will be its length on the moon if $g_m = \frac{g}{6}$. (04)
 - c. Write down the two conditions essential for the total internal reflection. (02)
- Q. 4**
- a. How are capacitors connected in parallel? Write down its characteristic features. (04)
 - b. An electric motor is running with 220 volts and 1.5 A current. Find the energy supplied by it in kilowatt-hour in 5 hours. (04)
 - c. What is the difference between Mutual induction and Self induction? (02)
- Q. 5**
- a. Write a note on Nuclear fission. (06)
 - b. Explain Word processing. (04)

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