

# TN Board Class 12 Physics

## Important Questions

1. Define electric field Intensity.
2. Write the rms value of alternating current. Draw the graph for the variation of  $I_2$  with respect to time
3. Give any two characteristics of electromagnetic waves.
4. When the energy of the incident radiation increased by 20 %, the kinetic energy of the photo electrons emitted from a metal increased from 0.5 eV to 0.8eV Calculate the work function of the metal.
5. Define the Converse of pair production
6. Why multimeter is called as AVO meter?
7. What are the properties of electric lines of forces?
8. State the laws of photo electric emission.
9. Derive an expression for a force on a current carrying conductor placed in a magnetic field.
10. A source of alternating emf is connected with RLC series combination circuit. Obtain with the help of vector diagram, the expression for (i) the effective voltage (ii) the phase relationship between the current and the voltage.
11. Describe the principle, construction and working of Geiger - Muller counter.
12. Explain the functional block diagram of a mono chrome TV receiver.
13. What are the condition for total internal reflection?
14. State the principle of Millikan's oil drop experiment.
15. Write a note on variation of mass with velocity.
16. Describe the principle, construction and working of cyclotron.
17. Discuss with theory the method of inducing emf in a coil by changing its orientation with respect to the direction of the magnetic field.
18. Explain the action of operational amplifier as (i) inverting amplifier and as (ii) difference amplifier.

19. What is the principle of radar? Describe the transmission and reception of radar by using block diagram.
20. What are cosmic rays? Explain how the intensity of the cosmic rays changes with latitude and altitude.

