Physics - 10th Class Physics English Medium Chapter 16 Preparation

Q1. What is a cathode ray tube?

Ans 1: A vacuum tube used to accelerate electrons which emit from the cathode by applying high voltage between cathode and anode is called ray tube.

Q2. In oscilloscope how filament is heated.

Ans 1: In oscilloscope filament is heated electrically. When filament is connected to voltage source, current passses through filament and get heated.

Q3. Give the examples of cathode ray tubes from yu daily life.

Ans 1: The picture in our T.V. set and display terminal of most computes are cathode ray tubes.

Q4. What is the use of grid in cathode ray oscilloscope.

Ans 1: In the electron gun the grid is used to control the flow of electron, thus control brightness on fluorescent screen.

Q5. Define analogy quantities.

Ans 1: quantities whose values very in continuously or remain constant are known as analogue quantities.
Example: Temperature, time, pressure, distance and analogue quantities.

Q6. What is cathode ray oscilloscope?

Ans 1: An instrument which is used to display the magnitude of rapidly changing electric current or potential.

Q7. Why filament is heated.

Ans 1: Filament is heated for emission of electrons. If metal is heated to a high temperature, some of free electrons may gain sufficient energy to erscape metal surface.

Q8. NAND gate is the reciprocal of AND gate discuss.

Ans 1: NAND gate is formed when AND and NOT gate are connected one after the other .If AND gate show 0 output, then NAND gate will show 1 output. So we can say NAND agate is reciprocal of AND gate.

Q9. What is the use of electron gun.

Ans 1: It is used to investigate the properties of electron beam.

Q10. Why a large potential is applied between anode and cathode.

Ans 1: A large potential is applied between anode and cathode to accelerate the beam of electrons.