

Physics - 10th Class Physics English Medium Chapter 16 Preparation

Q1. 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.

Q2. Name two factors which can enhance thermionic emission .

Ans 1: i. Increasing strength of the battery and voltage.
ii. By increasing temperature.

Q3. How digital electronic devices work.

Ans 1: Digital electronics devices store and process bites electronically.

Q4. In oscilloscope how filament is heated.

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

Q5. 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.

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 escape metal surface.

Q8. What are digital quantities.

Ans 1: Digital quantities. Quantities whose values vary in non continuous manner are called digital quantities. Digital quantities are expressed in form of digits or numbers.

Q9. Name some use of oscilloscope.

Ans 1: i. Displaying wave forms.
ii. Range finding
iii. Measuring voltages.
iv. Echo sounding .
v. Displaying heartbeats.

Q10. What is the use of electron gun.

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