

Exemplar Problems

Q4. Which of the following statements is not correct about the characteristics of cathode rays?

- (a) **They start from the cathode and move towards the anode.**
- (b) **They travel in straight line in the absence of an external electrical or magnetic field.**
- (c) **Characteristics of cathode rays do not depend upon the material of electrodes in cathode ray tube.**
- (d) **Characteristics of cathode rays depend upon the nature of gas present in the cathode ray tube.**

Sol:(d) Cathode rays consist of negatively charged material particles called electron. They were discovered by William Crookes. The characteristics of cathode rays do not depend upon the material of electrodes and the nature of the gas present in the cathode ray tube.