

Exemplar Problem 2

- Q) 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.

Ans: The key thing is cathode rays consists of negatively charged particles called electron. Hence, the characteristics of cathode rays do not depend upon the material of electrodes and nature of gas, as e^- s are everywhere same.

- Hence option d is correct.