

## Quiz Unit 1 Lesson 1

- 1) All of the following are from the properties of the cathode rays, except they .....
- a) have a thermal effect.
  - b) move in a straight lines.
  - c) are positively charged.
  - d) are affected by both electric and magnetic fields.
- 2) The scientist who designed the first model of the atomic structure on an experimental basis is .....
- a) Rutherford.
  - b) Thomson.
  - c) Aristotle.
  - d) Dalton.
- 3) The scientist who discovered that the electrons have a negligible mass if it is compared to that of the nucleus is .....
- a) Thomson.
  - b) Bohr.
  - c) Rutherford.
  - d) Dalton.
- 4) What are the mass ratio of carbon [C = 12] to hydrogen [H = 1] in ethane  $C_2H_6$  ? .....
- a) 1:4
  - b) 6:1
  - c) 3:1
  - d) 4: 1
- 5) A student carried out an experiment to produce cathode rays as in the opposite figure :
- a) Correct the mistakes
  - b) What is the effect of replacing the cathode material which is made of copper with iron, after correcting the mistakes, on the produced rays ? Explain.

