

Atomic Physics MCQ's with Answers Pdf

Question: 1

The study of electric discharge through gases gives valuable information regarding the structure of ____

- (A) Molecules
- (B) Atom's
- (C) Nucleus of an atom
- (D) Molecules and atoms

Ans: A

Molecules

Question: 2

According to Rutherford atom model, the spectral lines emitted by an atom is ____

- (A) Band spectrum
- (B) Continuous absorption spectrum
- (C) Continuous spectrum
- (D) Line spectrum

Ans: C

Continuous spectrum

Question: 3

Cathode rays are ____

- (A) Protons
- (B) Neutrons

(C) Positrons

(D) Electrons

Ans: D

Electrons

Question: 4

Charge per unit mass measures ____ of the particle.

(A) Charge density

(B) Specific mass

(C) Specific charge

(D) Specific density

Ans: C

Specific charge

Question: 5

The magnetic Lorentz force experienced by the electron in the magnetic field is ____

(A) MeV

(B) Ee

(C) Bev

(D) B^2v

Ans: C

Bev

Question: 6

Who suggested that electrons are revolving around the nucleus in circular orbits?

- (A) Sommerfeld
- (B) Rutherford
- (C) Prout
- (D) J.J. Thomson

Ans: B

Rutherford

Question: 7

Who suggested that all elements are made up of atoms of hydrogen?

- (A) Rutherford
- (B) J.J. Thomson
- (C) Prout
- (D) Dalton

Ans: C

Prout

Question: 8

_____ are used as MASER materials.

- (A) Diamagnetic ions
- (B) Ferromagnetic ions
- (C) Paramagnetic ions
- (D) All the above

Ans: C

Paramagnetic ions

Question: 9

Dalton showed that the matter is made up of extremely small particles called _____

- (A) Atoms
- (B) Quarks
- (C) Nuclei
- (D) Molecules

Ans: A

Atoms

Question: 10

_____ quantum number is useful in finding the possible elliptical orbits.

- (A) Spin
- (B) Magnetic
- (C) Orbital
- (D) Principle

Ans: C

Orbital