

1. Which of the following defines the Mass number of an atom?

- number of protons + number of electrons
- number of neutrons + number of electrons
- number of protons + number of neutrons
- number of electrons

Answer (c).

2. Who is credited with the discovery of electron?

- JJ Thomson
- James Chadwick
- Ernest Rutherford
- Niels Bohr

Answer (a).

3. An atom has a mass number of 37 and atomic number 17. How many protons does it have?

- 20
- 17
- 54
- 21

Answer (b).

4. Which of the following mostly accounts for the mass of an atom?

- neutrons
- neutron and proton
- electron and proton

electron and neutron

Answer (b).

5. Within an atom, the nucleus when compared to the extra nuclear part is

bigger in volume and heavier in mass

smaller in volume but heavier in mass

smaller in volume and lighter in mass

same size

Answer (b).

6. What would be the atomic number of the element in whose atom the K and L shells are full?

10

12

14

16

Answer (a).

7. Which metal was used by Rutherford in his alpha-scattering experiment?

gold

platinum

silver

lead

Answer (a).

8. An element has an electronic configuration of 2, 8, 7. Its valency is

2

7

3

1

Answer (d).

9. During a chemical reaction, atomic number

changes

remains same

changes and then is restored

changes alternately

Answer (b).

10. Which isotope of hydrogen contains only one proton and no neutron in its nucleus?

protium

deuterium

tritium

None of the above

Answer (a).