

11. Who of the following was awarded the Nobel Prize for his measurement of elementary electronic charge?

Rutherford

Robert Millikan

James Chadwick

JJ Thomson

**Answer (b).**

12. How are the subshells in an atom labelled?

s, p, d, f, g

s, p, f, g, d

s, f, g, d, f

s, d, g, p, f

**Answer (a).**

13. The isotopes of neutral atoms of an element differ in

Atomic number

Mass number

Number of electrons

Chemical properties

**Answer (b).**

14. The electronic configuration of an atom having atomic number 20 is

2, 8, 8, 2

2, 8, 10

2, 6, 8, 4

2, 4, 8, 6

**Answer (a).**

15. Almost the entire mass of an atom is concentrated in the

proton

electrons

nucleus

neutrons

**Answer (c).**

16. An atom differs from its ion in

Nuclear charge

Mass number

Number of electrons

Number of neutrons

**Answer (c).**

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17. The proton is heavier than an electron by

187 times

1837 times

3837 times

2827 times

**Answer (b).**

18. Which of the following is true about a charged atom?

anion is negatively charged

cation is negatively charged

cation has gained an electron

anion has lost an electron

**Answer (a).**

19. Which of the following is not a fundamental particle?

Proton

Neutron

Alpha particle

Electron

**Answer (c).**

20. Which one among the following most correctly determines the atomic number of an element?

Number of protons

Number of protons and electrons

Number of ions

Number of nucleons

**Answer (a).**