11. A fast moving neutron can eject from nitrogen

A. ? = rays
B. ? = rays
C. ? = rays
D. electrons

Answer: Option B

12. Rutherfords planet like structure was defective and unsatisfactory because

A. Moving e- accelerate towards the nucleus
B. Continuous spectrum
C. behavior of electron remain unexplained
D. all

Answer: Option D

13. The relationship between energy of a photon of light and its frequency is given by

A. de-Broglie duel nature of matter
B. Bohrs model
C. Plancks Quantum theory
D. Rutherfords atomic model

Answer: Option C

14. Splitting of spectral lines when atom is subjected to magnetic field is called

A. Zeemans effect
B. Starks effect
C. Photo electric effect
D. Compton effect

Answer: Option A

15. The velocity of the photon

A. Is independent of wavelength
B. Depends upon source
C. Depends upon its frequency
D. Equals to the square of amplitude

Answer: Option A

16. Which one of the following explain the shape of orbitals

A. Principal of quantum number
B. Azimuthal quantum number
C. Magnetic quantum number
D. Spin quantum number

Answer: Option **B**

17. Atom cannot be divided into simple unitstheorized by

A. Rutherford
B. Dalton
C. Bohr
D. Schrodinger

Answer: Option **B**

18. Pressure in gas discharge tube was kept

A. 10 torr
B. 1 torr
C. 0.1 torr
D. 0.01 torr

Answer: Option **D**

19. The number of fundamental particles in an atom of the lightest isotope carbon are

A. 6
B. 12
C. 18
D. 20

Answer: Option **C**

20. Angle of deflection was studied by

A. Hitorff
B. Stoney
C. William Crookes
D. J.Perrin

Answer: Option **D**