

31. The correct electronic configuration of Cu is

- A. [Ar]4s1 B. [Ar]4s2
C. [Ar]3d104s1 D. [Ar]3d94s2

Answer: Option C

32. Pfund series are produced in the spectrum of hydrogen atom

- A. when electrons jump down to 2nd- orbit
C. when electrons jump down to 4th- orbit B. when electrons jump down to 3rd- orbit
 D. when electrons jump down to 5th- orbit

Answer: Option D

33. Atomic orbits having same energy are called

- A. Degenerate orbitals B. Bonding molecular orbitals
C. Anti bonding molecular orbitals D. Half filled orbitals

Answer: Option A

34. Sommerfeld's modification in Bohr's model is

- A. Orbit is cylindrical B. Orbit is elliptical
C. Orbit is longitudinal D. Orbit is asymmetrical

Answer: Option B

35. When electrons collide with heavy metals than _____ are produced.

- A. Beta-rays B. Alpha-rays
C. X-rays D. Gamma-rays

Answer: Option C

36. Planck's equation is

- A. $E = mc^2$
- B. $mvr = nh/2\pi$
- C. $E = h\nu$
- D. $\nu = h/mv$

Answer: Option C

37. Atom with higher atomic number produces X-rays of

- A. Shorter wavelength
- B. Larger wavelength
- C. X-ray not produced
- D. All are possible

Answer: Option A

38. Wavelength of electron was verified by

- A. Moseley
- B. Davisson and Germer
- C. Einstein
- D. Roentgen

Answer: Option B

39. Space around nucleus where finding probability of electrons is maximum is called

- A. Orbital
- B. Orbit is elliptical
- C. subshell
- D. Electron cloud

Answer: Option A

40. Quantum number which tells the energy of electron is

- A. n
- B. l
- C. m
- D. s

Answer: Option A