

10. Tick the correct statement

- A. an atom has limited number of ionization potentials but a large number of excitation potentials
- B. there are as many excitation potentials as there are excited states
- C. the difference between the energy of the ground state and any one of the excited states is the measure of excitation energy
- D. all of above

Answer: Option D

11. Ground state energy of the 4th orbit in a H-atom is

- A. -13.60 eV
- B. -3.40 eV
- C. -0.85 eV
- D. -1.51 eV

Answer: Option C

12. Total number of series in hydrogen spectrum is

- A. three
- B. four
- C. five
- D. six

Answer: Option C

13. The radiations emitted from hydrogen filled discharge tube show

- A. band spectrum
- B. line spectrum
- C. continuous spectrum
- D. absorption spectrum

Answer: Option B

14. The electric P.E of an electron in an orbit at a distance r_n from the positive charge

- A. Ke^2/r_n
- B. Ke^2/r_n^2
- C. $-Ke^2/r_n$
- D. $-Ke^2/r_n^2$

Answer: Option C

15. Radiation with wavelength longer than red light

Techofworld.In