Date Planned : __ / __ / __	Daily Tutorial Sheet - 6	Expected Duration : 90 Min
Actual Date of Attempt : __ / __ / __	Level - 2	Exact Duration :_____

76. The number of spectral lines obtained in Bohr spectrum of hydrogen atom when an electron is excited from 5th orbit to ground level is:

(A) 10   (B) 5   (C) 8   (D) 15

77. The wavelength associated with a golf ball weighing 200 g and moving at a speed of $5\ m\,h^{-1}$ is of the order:

(A) $10^{-10}\ m$ (B) $10^{-20}\ m$ (C) $10^{-30}\ m$ (D) $10^{-40}\ m$

78. On the basis of Bohr's model, the radius of the 3rd orbit is :

(A) equal to the radius of first orbit   (B) three times the radius of first orbit

(C) five times the radius of first orbit   (D) nine times the radius of first orbit

79. The filling of degenerate orbitals by electrons is governed by.......... rule:

(A) Hund's   (B) Aufbau   (C) Pauli's   (D) None of these

80. The radius of an atomic nucleus is of the order of:

(A) $10^{-10}\ m$ (B) $10^{-13}\ m$ (C) $10^{-15}\ m$ (D) $10^{-8}\ m$

81. In the third energy level, there are .... Orbitals:

(A) 9   (B) 8   (C) 7   (D) 6

82. When there are two electrons in the same orbital, they have......spins.

(A) Parallel   (B) Symmetric   (C) Antiparallel   (D) None of these

83. The number of spherical nodes in 4s orbital is:

(A) 4   (B) 0   (C) 2   (D) 3

84. How many electrons in an atom with atomic number 105 can have $(n + l) = 8$?

(A) 30   (B) 17   (C) 15   (D) Un-predictable

85. The wave mechanical model of an atom is based upon which of the following equations?

(A) Schrodinger's equation   (B) de Broglie's equation

(C) Heisenberg' uncertainty principle   (D) All of the above