

XI Chemistry Worksheet

Time: 30 min

Ch# 2 : Structure of Atom-01

Full Marks: 20

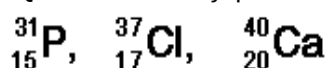
Instructions:

1. All questions are compulsory.
2. Please give the explanation for the answer where applicable.

Q1 - What were the discrepancies observed in Bohr's model?

(5 Marks)

Q2 - How many protons and neutron are in the following nuclei?



(3 Marks)

Q3 - Which of the following orbitals are not possible -

2d, 4f, 6d, 3g

(2 Marks)

Q4 - If the largest value of m for an electron is +2, then the electron may be present in what type of sub shell?

(2 Marks)

Q5 - Point out the differences and similarities in the orbitals represented by following sets of quantum numbers-

	n	l	m
(i)	3	2	+2
(ii)	3	2	-1

(2 Marks)

Q6 - The work function of a metal is 4.2 eV. If radiations of $2000 \text{ \AA}$ fall on the metal, then find the kinetic energy of fastest photon electron.

(3 Marks)

Q7 - What is the value of Plank's constant in S.I. Units?

(1 Mark)

Q8 - When a ball is hit with a hockey stick by a player, it does not make a wave. Why?

(1 Mark)

Q9 - Which series are produced when electrons from the outer orbits jumps to 3rd orbit?

(1 Mark)