

CHEMISTRY-11	Chapter#05-First Half (5.1-5.5) Test-3		
	Name:	Class:	ID:
Date: / /	Marks Total: 30	Marks Obtained:	
Time Allowed: 50 Min.			

Maximum Marks: 10

(OBJECTIVE TYPE)

Time Allowed: 10 Min.

NOTE: Tick The Correct Option:

- The wave number of the light emitted by a certain source is $2 \times 10^6 \text{ m}^{-1}$. The wave length of this light will be:
 - 500 nm
 - 500 m
 - 200 nm
 - $5 \times 10^7 \text{ m}$
- Neutron was discovered by:
 - Rutherford
 - Chadwick
 - Goldstein
 - Thomson
- Cathode rays have a _____ effect.
 - Oxidizing
 - Reducing
 - Acidic
 - None
- Slow neutrons move with energy less than:
 - 1 ev
 - 2 ev
 - 3 ev
 - 4 ev
- The mass of neutron is:
 - 1.0073 amu
 - 1.0087 amu
 - 5.4858 amu
 - $9.1095 \times 10^{-31} \text{ amu}$
- At infinity, the potential energy of the electron is always:
 - Positive
 - Negative
 - Zero
 - Infinite
- Line spectrum of sodium consists of _____ yellow lines.
 - Two
 - Three
 - Five
 - Seven
- Which spectral series does not lie in I.R region?
 - Balmer series
 - Bracket series
 - Paschen series
 - Pfund series
- The spectral lines of Brackett series arise when the electrons in H-atoms jump from higher orbits to:
 - 1st orbit
 - 2nd orbit
 - 3rd orbit
 - 4th orbit
- The idea of elliptical orbit was given by:
 - Bohr
 - Stark
 - Zeeman
 - Sommerfield

Maximum Marks: 20

(SUBJECTIVE TYPE)

Time Allowed: 40 Min.

SECTION-I

- Q.2: Give brief answers to the following questions: (12)**
- How does the bending of cathode rays in electric and magnetic fields show that they are negatively charged?
 - Why are positive rays also called canal rays?
 - How were neutrons discovered?
 - Write main points of Plank's quantum theory. Or Prove that $E = h\nu$.
 - Explain atomic absorption spectrum?
 - What are the defects in Bohr's model?

SECTION-II

NOTE: Attempt All Questions:

(08)

Q.3: Write J. J. Thomson's method to measure the e/m value of electron.

Q.4: What is Bohr's model of atom? Derive an expression for the radius of hydrogen atom.