Date: 20-11-2024

LGS GROUP OF COLLEGES

CHEMISTRY Assignment XI

TEST# WT5

Paper Code:1908	Name:……	Roll No:
TOPIC: 5th Half	Objective + Subjective	Marks =15, Time:30 min

SECTION-I OBJECTIVE TYPE (TIME 10 MINUTES)

Note: Four possible answers A, B, C and D to each question are given. The choice which you think is correct, fill that circle in front of that question with Marker or Pen ink in the answer book. Cutting or filling two or more circles will result in zero mark in that question. **(1x5=5)**

1 The nature of the positive rays depends on
(A) The nature of the electrode (B) The nature of the residual gas
(C) The nature of the discharge tube (D) All of the above

2 Bohr model of atom is contradicted by:
(A) Heisenberg's uncertainty principle (B) Planck's quantum theory
(C) Dual nature of matter (D) All of above

3 The velocity of photon is:
(A) Independent of its wavelength (B) Depends on its wavelength
(C) Equal to square of its amplitude (D) Depends on its source

4 Rutherford's model of atom failed because
(A) The atom did not have a nucleus and electron
(B) It did not account for the attraction between protons and neutrons
(C) It did not account for the stability of the atom
(D) There is actually no space between the nucleus and the electrons

5. Mass of one mole of electronic
(A) 0.55mg (B) .0184 mg
(C) 1.673 mg (D) 1.008 mg

Part - I

Q2. Write short answers of the following questions. **(3x2=6)**

i. The e/m values of positive rays obtained from hydrogen gas is 1836 times less than that of cathode rays. Justify?

ii. Why is it necessary to decrease the pressure in discharge tube to get cathode rays?

iii. Differentiate between frequency and wave umber?

(PART II) **(4 marks)**

Q3. Describe Millikan's oil drop method for the measurement of charge on Electron.