## **SELF ASSESSMENT TEST-2**

## CLASS 11

## CHEMISTRY

Time – 45 min

F.M.- 20 marks

Q1. Choose the correct option:

[5]

i) Which is the correct statement about proton?

- a. Proton is neutral particle
- b. Proton is alpha particle
- c. Proton is ionized hydrogen molecule
- d. Proton is ionized hydrogen atom
- ii) Splitting of spectral lines under the influence of Magnetic field is

called

- a. Stark effect
- b. Zeeman effect
- c. Photoelectric effect
- d. Shielding effect

iii) Which of the following equation represents BOHR'S quantization

condition?

a. 
$$mvr = n\pi$$
  
b.  $mvr = \frac{nh}{2\pi}$ 

c. mv = nh

**d.** 
$$mvr = \frac{2\pi}{nh}$$

iv. Which of the following is not an electromagnetic wave?

- a. Microwaves
- b. Radiowaves
- c. Light wave
- d. Sound wave

v. Who proposed Plum Pudding model?

- a. Sommerfield
- b. Chadwick
- c. J.J. Thomson
- d. Bohr

Q2. Which series of Hydrogen spectrum is observed in the visible

region? Write Rydberg's equation for the same.[2]Q3. Write Chadwick's equation associated with the discovery of<br/>neutron.[1]Q4. Explain the drawbacks of Rutherford's model.[4]

**Q5.** Write the expression of radius and velocity of an electron in

Bohr's orbit.

Q6. Write two differences between cathode rays and anode rays. [2]

[2]

[3]

- **Q7.Define the following:** 
  - a. Stationary orbit
  - b. Spectrum
  - c. Electromagnetic radiation

Q4. What is the relation between wavelength and wave number? [1]