ST. LAWRENCE HIGH SCHOOL

A JESUIT CHRISTIAN MINORITY INSTITUTION

Sub:Physical Science **Class: 8** **Date:03.04.21**

Duration: 40 min **Worksheet solutions-23** **Full Marks: 15**

ATOMIC STRUCTURE/DISCOVERYOF THE NUCLEUS

Choose the Correct options:

1. Who gave the concept of nucleus?

Ans (a)Rutherford (b)Goldstein (c)Bohr (d)Thomson

2. When was the idea of nucleus formulated?

Ans (a)1905 (b) 1911 (c) 1913 (d) 1932

3. What was the basis of the idea of the nucleus?

Ans (a)Discharge tube (b)Alpha particle scattering experiment (c)Quantum theory (d)Solar system

4. From which elements are alpha particles obtained?

Ans (a)Helium (b)Polonium (c)Radium (d)Both (b) and (c)

5. What material was bombarded with the alpha particle?

Ans (a)gold (b)silver (c)copper (d)tin

6. What happened to most of the alpha particles?

Ans (a) passed un-deviated (b)bounced back (c)deflected (d) absorbed

7. Which particles retraced their paths?

Ans (a) central (b) peripheral (c) slow (d) fast

8. What was the name of the atomic model given by Rutherford?

Ans (a)nuclear model (b)Solar system model (c)Plum pudding model (d) quantum model

9. Who provided an atomic model in 1913?

Ans (a) Rutherford (b)Thomson (c) Planck (d) Bohr

10. What is at the centre of the solar system model of atom?

Ans (a) neutron (b)proton (c) Electron (d) Both (a) and (b)

11. Alpha particles retraced their path due to

Ans (a)Attraction (b) Repulsion (c) Collision (d) None of these

12. Mass of the atom is concentrated in

Ans (a) orbit (b) Nucleus (c) None of these (d) Atom is mass-less

13. Name an atom whose nucleus contains no neutron.

Ans (a)Hydrogen (b) Helium (c) Lithium (d) Beryllium

14. Electrons revolve around

Ans (a) nucleus (b) proton (c) neutron (d) quark

15. The nucleus is positively charge due to the presence of

Ans (a)electrons (b) protons (c) neutrons (d) neutrinos