

SA2 ASSIGNMENT

CLASS-9TH

SUBJECT- SCIENCE

- Q1 What are canal rays?
- Q2 If one atom contains one electron and one proton, will it carry any charge or not?
- Q3 What do you think would be the observation if the alpha-particles scattering experiment is carried out using a foil of a metal other than gold?
- Q4 Helium has mass no 4 and two protons in its nucleus. How many neutrons does it have?
- Q5 If K and L shells of an atom are full, then what would be the total number of electrons in the atom?
- Q6 Write the electronic configuration of any one pair of isotopes.
- Q7 Hydrogen and oxygen combine in the ratio of 1:8 by mass to form water. What mass of oxygen gas would be required to react completely with 3 gm of hydrogen gas?
- Q8 Which postulate of Dalton's theory can explain the law of definite proportions? Aluminium chloride and Sodium sulphide.
- Q9 Write down the name of compounds represented by $\text{Al}_2(\text{SO}_4)_3$ and KNO_3 .
- Q10 How many atoms are present in a PO_4^{3-} .
- Q11 On what basis are plants and animals put into different categories.
- Q12 Which gas is the major component of the atmosphere of Venus and Mars.
- Q13 Name the winds which bring rain in India.
- Q14 Name two factors which are responsible for formation of the soil?
- Q15 Name two bacteria which are responsible for the nitrogen fixation.
- Q16 How are fungi (i) similar and (ii) dissimilar to plants?
- Q17 Name mammals that lay eggs?
- Q18 Who introduced binomial nomenclature?
- Q19 Write any two ways by which AIDS spread? What are the principle treatments of disease?
- Q20 Who discovered peptic ulcer? Write the name of its causative agent?
- Q21 Give two principle application of reflection of sound waves?
- Q22 Why sound wave is called longitudinal wave?
- Q23 Which wave property determines (i) loudness and (ii) pitch?
- Q24 Define average power? Define 1kWh?
- Q25 What will be the kinetic energy of body when its mass is made four times and the velocity be doubled? Define Sonar?
- Q26 Which protozoan is responsible for sleeping culture in kala-azar?
- Q27 Define biosphere.
- Q28 What is the difference between mass and Weight?
- Q29 Define 'G' and give its value.
- Q30 Derive the inverse square of Newton.