

1. State the relationship between the buoyant force on an object and the weight of the fluid displaced by it. (1)
2. Define pressure and write its SI unit. (1)
3. What is the atomic mass unit? (1)
4. Name the scientist who wrote the book 'The Origin of Species'. (1)
5. Give reason for the following:
 - (a) a Camel walks easily on a sandy surface than a man in spite of the fact that a camel is much heavier than a man.
 - (b) a sharp needle pierces the wood easily but not a blunt knife although the force applied on both is same. (2)
6. Relative density of Silver is 10.8. Find the density of Silver in its SI unit? (density of water = 1000kg/m^3) (2)
7. Write the chemical formula of the following:
 - i) Aluminium Sulphate
 - ii) Magnesium Hydroxide (2)
8. What is the atomicity of Oxygen, Ozone, Neon and Sulphur? (2)
9. List any four conventions followed while using scientific names. (2)
10. Identify the group to which the following belong: (2)
 - (a) Plants with body differentiated into stem and leaf-like structures and hidden reproductive organs
 - (b) Plants with tap root system and two cotyledons in the seed.
 - (c) Unicellular eukaryotic organisms with appendages such as cilia and flagella.
 - (d) Plants which bear naked seeds.
11. (a) Name the instrument which is used to determine the density of a liquid. (3)
- (b) "A ball of steel sinks in water while a ship made up of iron and steel floats". Give reason. (3)
12. a) State the Law of Constant Proportion. (3)
- b) Taking the example of water explain the Law of Constant Proportion. (3)
13. Name the division to which following organisms belong and write two important features of each. (3)



A



B