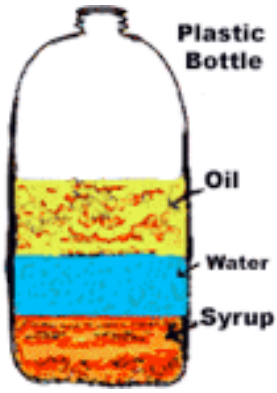
PT3 Science Revision

Standard VIII

I. **Choose the correct option:**

1. The hottest zone of the candle flame is
   a) Non luminous zone
   b) Luminous zone
   c) Dark zone
   d) Blue zone
2. Which liquid is least dense?
   a) Oil
   b) Water
   c) Syrup
   d) All the above



3. Which is the correct sequence of increasing order of the boiling point of substances in fractional distillation.
   a) LPG< Lubricating oil< kerosene<diesel
   b) Petrol< kerosene<diesel oil<fuel oil
   c) LPG<diesel oil< kerosene<naphthalene
   d) Naphthalene< petrol<kerosene<diesel
4. Spirogyra reproduces by
   a) Fragmentation b) Budding
   C) Regeneration d) Binary fission

II. Correct the following statements.

5. Hydra reproduces through binary fission.

Ans. Hydra reproduces through Budding

6. Hydrocarbons are compounds of carbon, hydrogen and oxygen only.

Ans. Hydrocarbons are compounds of carbon and hydrogen only.

III. Do as directed:

7. Give the scientific terms for the following:

i) A non-fossil fuel obtained by heating wood slowly with very little air: Charcoal

ii) The burning of fuel in the presence of oxygen: Combustion

8. What is the mass of 5 m^3 of cement of density 3000 kg/m^3?

Ans. Mass = Volume x Density

Mass = 5 x 3000

= 15000 kg

IV. Answer in brief:

9. Differentiate between mass and weight. (1 point each)

Mass	Weight
Measure of the amount of matter in a body	Measure of the force pulling the body towards the ground

10. State the Law of floating for the substance.

Ans. A floating body displaces a weight of liquid equal to its own weight.

11. How is coal tar formed? Give one use of coal tar.

Ans. Coal tar is formed by mixing different carbon compounds. It is used in making drugs.

v. Answer the following:

12. a) How is Biogas produced?

Ans. Biogas is made by plant and animal wastes. When the wastes rot, it is collected and used for heating.

b) Mention two advantages of using biogas as a fuel.

Ans. - Does not produce any smoke

- Does not leave any residue and is cheaper than other fuels

13. The picture shows you what happens on lowering a piece of rock weighing 79 g into water. Calculate the density of the piece of rock.

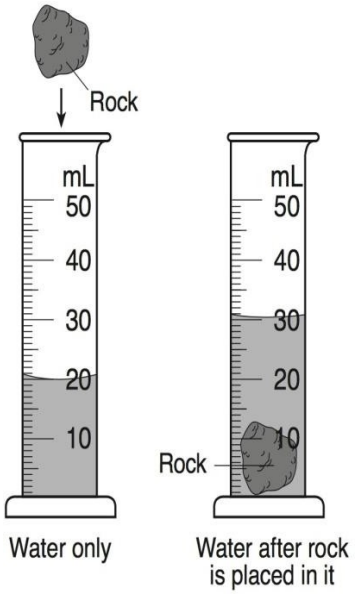
Ans. If weight = 79 g then mass = 79/9.8 = 8.

Volume = 11m^3

Density = Mass/ volume

= 8/11

= 0.7 g/m^3



14. What volume of silver metal will weigh exactly 2500 g? The density of silver is 10.5 g/cm3.

Ans. Mass = 255g

Density = 10.5 g/cm^3

Volume = mass/density = 255/10.5 = 24.28cm^3

15. What is the mass of air in a room measuring 10 m × 6 m × 5 m if the density of air is 1.3 kg/ cm^3?

Ans. Volume = 300m^3

Density = 1.3kg/cm^3

Mass = 300 x 1.3 = 390kg