1. Which material will disappear when mixed with water and stirred?
   A. Sand
   B. Sawdust
   C. Sugar
   D. Oil (C)

Explanation : Sugar is soluble in water and dissolves when stirred.

2. Which material will not disappear in water and will settle down?
   A. Salt
   B. Chalk powder
   C. Vinegar
   D. Oxygen (B)

Explanation : Chalk powder is insoluble in water and settles at the bottom.

3. Which liquid mixes uniformly with water?
   A. Oil
   B. Vinegar
   C. Kerosene
   D. Liquid nitrogen (B)

Explanation : Vinegar is miscible with water and forms a uniform solution.

4. Which liquid forms a separate layer when added to water?
   A. Vinegar
   B. Salt solution
   C. Oil
   D. Sugar solution (C)

Explanation : Oil is immiscible with water and floats as a separate layer.

5. Which gas dissolves in water and is vital for aquatic life?
   A. Nitrogen
   B. Oxygen
   C. Hydrogen
   D. Helium (B)

Explanation : Dissolved oxygen in water enables aquatic organisms to survive.

6. Which gas is listed as insoluble in water?
   A. Carbon dioxide B. Nitrogen
   C. Oxygen D. Ozone (B)

Explanation : Nitrogen is noted as an example of a gas that does not dissolve in water.

7. What is the correct home recipe for an ORS solution?
   A. 6 tsp sugar + 1 tsp salt + 1 L tap water
   B. 4 tsp sugar + ½ tsp salt + 1 L boiled water (hot)
   C. 6 tsp sugar + ½ tsp salt + 1 L boiled and cooled water
   D. 3 tsp sugar + ½ tsp salt + ½ L water (C)

Explanation : ORS is prepared with 6 teaspoons sugar and ½ teaspoon salt dissolved in 1 litre of boiled and cooled water.

8. ORS is primarily used to:
   A. Treat fever
   B. Treat dehydration due to diarrhoea or other illnesses
   C. Improve appetite
   D. Cure cough (B)

Explanation : ORS helps replace water and salts lost during diarrhoea and similar conditions.

9. In the solubility activity, how many glass tumblers are used and how much water is in each?
   A. 3 tumblers, half filled
   B. 4 tumblers, three-quarters filled
   C. 5 tumblers, two-thirds filled
   D. 6 tumblers, full to the brim (C)

Explanation : Five glass tumblers are used, each about two-thirds filled with water.

10. After adding a material to water and stirring well, what is the next step?
    A. Add more water
    B. Heat the mixture
    C. Wait and observe
    D. Filter immediately (C)

Explanation : The procedure is to wait and observe whether the material disappears or settles after stirring.

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