

HW
2/8/21

Ex-I

3) ans) Pure substances are substances that have a definite composition which has consistent properties throughout. They are of two types: - elements and compounds.

5) a) Metal: - Gold, silver, iron, Mercury etc.

b) Non-metals: - Carbon, oxygen, sulphur etc.

c) Metalloids: - Boron, Silicon, Germanium etc.

d) Noble gases: - Helium, Neon, Argon, Xenon etc.

6) ans) Water is formed when the two elements hydrogen and oxygen combine chemically in a fixed ratio of 1:8 by mass.

The three characteristics that justify water is a compound are:-

- It consists of two elements.
- It is pure.
- Its components cannot be separated by simple physical means, e.g. filtration, evaporation, decantation, boiling, melting, freezing, etc.

7) ans) Metals

- Lustrous.
- Good conductors of heat.
- High melting point.
- High density.
- Malleable

Non-metals

- Have no lustre.
- Bad conductors of heat.
- Low melting point.
- Low density.
- Non-malleable

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| <ul style="list-style-type: none">• Usually solid in room temperature.• Ductile• Opaque as a thin sheet.• Sonorous• Very hard | <ul style="list-style-type: none">• Can be solid, liquid or gas in room temperature• Non-ductile• Transparent as a thin sheet• Not sonorous• Brittle |
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