UJIAN TOPIKAL
CHAPTER 5: MATTER

1. Complete these following statements on matter

| | | | | |
|---|---|---|---|---|
| Fine particles | Chemical changes | absorption | composition | new material |
| Mass | Physical changes | volume | release | |

a) Matter is a material consisting of _____that has _____ and _____

b) Changes on matter can be classified into two types, namely _____ and _____.

c) Changes of matter involve _____ or _____ of energy.

d) Chemical changes is the change that produces one or more _____.

e) The resulting new subtance has different _____ from the original substance. For example, an egg fried in oil will change from liquid state to a solid state on both yolk and egg white.

2. Determine whether the situations below shows the chemical or property or physical property or matter.

| Statement | Physical property / Chemical property |
|---|---|
| a) Water boils when heated | |
| b) The gate of a house is rusted | |
| c) The rubbish is collected and burnt | |
| d) Sugar dissolves in water | |

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3. Classify the substances given in the space provided. Then, choose the characteristic used to classify the substances.

a) Mixture of petrol and water

| Denser | Less dense |
|---|---|
| (i) | (ii) |

☐ Density ☐ Melting point ☐ Boiling point ☐ Solubility

b) Ethanol and cooking oil

| Boil at the temperature less than $100^0$C | Boil at the temperature more than $100^0$C |
|---|---|
| (i) | (ii) |

☐ Density ☐ Melting point ☐ Boiling point ☐ Solubility

c) Naphthalene and iron fillings

| Physical states at 85 °C | |
|---|---|
| Solid | Molten |
| (i) | (ii) |

☐ Density ☐ Melting point ☐ Boiling point ☐ Solubility

d) Mixture of salt and sand

| Solubility in water | |
|---|---|
| Soluble | Insoluble |
| (i) | (ii) |

☐ Density ☐ Melting point ☐ Boiling point ☐ Solubility

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