

BAHAGIAN A

Arahan: Setiap soalan diikuti oleh empat pilihan jawapan, **A, B, C, dan D**. Bagi setiap soalan, pilih satu jawapan sahaja.

Instructions: Each question is followed by four alternative answers, **A, B, C and D**. For each question, choose **one** answer only.

- 1 Antara pernyataan berikut, yang manakah benar tentang tindak balas eksotermik?
Which of the following statements is true about an exothermic reaction?

- A** Haba diserap dari persekitaran.
Heat is absorbed from the surroundings.
- B** Kandungan tenaga dalam hasil tindak balas kurang berbanding dalam bahan tindak balas.
The energy content of the products is less than that of the reactants.
- C** Suhu persekitaran berkurangan.
The temperature of the surroundings decreases.
- D** Tindak balas eksotermik biasanya merupakan proses berbalik.
It is usually a reversible process.

- 2 Antara yang berikut, yang manakah adalah tindak balas endotermik?
Which of the following is an endothermic reaction?

- A** Pendidihan air
Boiling of water
- B** Pembakaran bahan api fosil
Burning of fossil fuels
- C** Tindak balas antara zink dengan air
Reaction between zinc and water
- D** Melarutkan natrium hidroksida ke dalam air
Dissolving sodium hydroxide in water

- 3 Antara pasangan berikut, yang manakah betul dipadankan?
Which of the following pairs are correctly matched?

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	Tindak balas Reaction	Jenis perubahan Type of change
A	Mencampurkan garam ke dalam air <i>Adding salt into water</i>	Perubahan kimia <i>Chemical change</i>
B	Membakar serbuk magnesium di dalam oksigen <i>Burning magnesium powder in oxygen</i>	Perubahan kimia <i>Chemical change</i>
C	Memanaskan serbuk besi dengan sulfur <i>Heating iron powder with sulphur</i>	Perubahan fizik <i>Physical change</i>
D	Pengaratan besi <i>Corrosion of iron</i>	Perubahan fizik <i>Physical change</i>