Sulfur - 2019 June

1. 0620/11,12,13/M/J/19/No.32

Which statement describes a disadvantage of sulfur dioxide?

- A It can be used as a bleach when making wood pulp.
- **B** It can be used to kill bacteria in food.
- C It can be used to manufacture sulfuric acid.
- **D** It dissolves in water to form acid rain.

2. 0620/21,22/M/J/19/No.33

Which row shows the conditions used in the Contact process?

	temperature /°C	pressure /atm	catalyst
Α	25	2	iron
В	25	200	iron
С	450	2	vanadium(V) oxide
D	450	200	vanadium (V) oxide

3. 0620/12/F/M/19/No.33

Which element has an oxide that is used as a food preservative?

- A helium
- **B** hydrogen
- **C** iron
- **D** sulfur

4. 0620/22/F/M/19/No.35

The Contact process is used to make sulfuric acid.

The steps in the process are listed.

- Dissolve sulfur trioxide in 98% concentrated sulfuric acid. 1
- 2 Heat sulfur strongly in air.
- 3 Add oleum to water.
- Pass sulfur dioxide over a vanadium(V) oxide catalyst. 4

Palpacambildo Which sequence of steps is correct?

A
$$4 \rightarrow 1 \rightarrow 2 \rightarrow 3$$

$$\mathbf{B} \quad 4 \to 2 \to 3 \to 1$$

$$\mathbf{C} \quad 2 \to 1 \to 4 \to 3$$

D
$$2 \rightarrow 4 \rightarrow 1 \rightarrow 3$$