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CAIE A LEVEL Chemistry Topic Questions / 9701

## 1.4.4-Deduce-Electronic-Configurations-Using-Ionisation-Energy-Data-2023-set-1-qp

Total Questions: 1

### Note:

- For questions with answer choices as statements 1, 2 and 3, follow these instructions for selecting options A/B/C/D:
- A= 1, 2 and 3 are correct
- B=1 and 2 only are correct
- C=2 and 3 only are correct
- D=1 only is correct

# Questions

## Question 1:

The first seven ionisation energies of an element between lithium and neon in the Periodic Table are as follows.

1310    3390    5320    7450    11 000    13 300    71 000     $\text{kJ mol}^{-1}$

What is the outer electronic configuration of the element?

- A**  $2s^2$             **B**  $2s^2 2p^1$             **C**  $2s^2 2p^4$             **D**  $2s^2 2p^6$