

- 4 A metal bar is heated, then allowed to cool. The wavelength  $\lambda_{\text{max}}$  at which peak radiation emission occurs is determined.

Which of the following statements is correct?

- ☐ A  $\lambda_{\text{max}}$  decreases as the metal bar cools.
- ☐ B  $\lambda_{\text{max}}$  increases as the metal bar cools.
- ☐ C  $\lambda_{\text{max}}$  increases as the metal bar is heated.
- ☐ D  $\lambda_{\text{max}}$  stays constant as the metal bar is heated.

(Total for Question 4 = 1 mark)