

3 Which of the following describes why electrons are released from the metal filament during thermionic emission?

- ☐ **A** The metal filament is heated by an electric current.
- ☐ **B** The metal filament is contained within a vacuum.
- ☐ **C** The metal filament is bombarded by high-energy electrons.
- ☐ **D** The metal filament is maintained at a high potential.

(Total for Question 3 = 1 mark)