

**SECTION A**

**Answer ALL the questions in this section.**

**For questions 1–10, in Section A, select one answer from A to D and put a cross in the box ☐.**

**If you change your mind, put a line through the box ☒ and then mark your new answer with a cross ☐.**

- 1** Fission and fusion are both nuclear processes.

Which of the following statements is correct for both processes?

- ☐ **A** No harmful radiation is produced.
- ☐ **B** Nuclear binding energy increases.
- ☐ **C** Very high temperatures are required.
- ☐ **D** The process can occur spontaneously.

**(Total for Question 1 = 1 mark)**