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

1 The ultimate fate of the universe is uncertain.

Which of the following would result in an open universe?

- A The average density of the universe is equal to the critical density of the universe.
- **B** The average density of the universe is less than the critical density of the universe.
- C The mass of the universe is equal to the critical mass of the universe.
- **D** The mass of the universe is greater than the critical mass of the universe.

(Total for Question 1 = 1 mark)