

7 Read this statement from a website.

Immediately after the 'big bang', at the start of the Universe, there were only atoms of the element hydrogen (H).

Now the Universe contains atoms of over one hundred elements.

7 (a) Explain how atoms of the element helium (He) are formed in a star.

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(2 marks)

7 (b) Explain how atoms of very heavy elements, such as gold (Au), were formed.

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(2 marks)

7 (c) Explain how, and when, atoms of different elements may be distributed throughout the Universe.

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(2 marks)

6

**END OF QUESTIONS**

