**1.** Which enzymes are needed to produce recombinant plasmids that are used in gene transfer?

A. DNA polymerase and ligase

B. DNA polymerase and restriction enzymes

C. Restriction enzymes and ligase

D. Helicase and restriction enzymes

(Total 1 mark)

**2.** Outline a basic technique for gene transfer involving plasmids.

(Total 5 marks)

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**3.** Discuss the potential benefits and possible harmful effects of genetic modification.

(Total 7 marks)

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