
Biology Unit 5 Chapter 16 - DNA Technology Exam Questions with Correct Answers

(Refer to exam q) Gene therapy is used to treat the genetic disorder, ADA deficiency. Affected individuals are unable to produce the enzyme adenosine deaminase (ADA). Without this enzyme, T lymphocytes, a type of white blood cell, cannot provide immunity to infection. The diagram shows the processes involved in the treatment of ADA deficiency by gene therapy.

What is meant by gene therapy? (1) - Answer-Replacement of defective gene

The ADA gene is inserted into a virus. Give two advantages of using a virus in gene therapy. (2) - Answer-Can inject DNA into cells;
Targets specific cells

Individuals who have been treated by this method of gene therapy do not pass on the ADA gene to their children. Explain why. (1) - Answer-Gamete cells do not contain ADA gene

T lymphocytes are produced in bone marrow. A bone marrow transplant from a genetically matched donor can provide a permanent cure for ADA deficiency. Suggest why bone marrow for a transplant is obtained from a genetically matched donor. (1) - Answer-To prevent immune response

Explain why treatment of ADA deficiency by gene therapy must be repeated at regular intervals, whereas a single bone marrow transplant can provide a permanent cure. (2) - Answer-T lymphocytes have a limited life span;
bone marrow provides continual supply of T lymphocytes

(Refer to exam q) The polymerase chain reaction is a process which can be carried out in a laboratory to replicate DNA. The diagram shows the main stages involved in the polymerase chain reaction.

Explain why DNA is heated to 95 °C. (1) - Answer-To separate the two strands

What is the role of a primer in this process? (1) - Answer-Enables sequencing to start

What is the role of DNA polymerase? (1) - Answer-Joins DNA nucleotides

How many DNA molecules will have been produced from one molecule of DNA after 6 complete cycles? (1) - Answer-64

Genetic Technology Guide Answers

Padhraic Smyth



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