
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

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Genetic Technology Guide Answers:

Genetic Engineering News, 2006 *Introduction to Genetics* Terry A. Brown, 2025-02-18 Nowadays genetics focuses on DNA Just like the first edition the theme of this new edition *Introduction to Genetics A Molecular Approach* is therefore the progression from molecules DNA and genes to processes gene expression and DNA replication to systems cells organisms and populations This progression reflects both the basic logic of life and the way in which modern biological research is structured The molecular approach is particularly suitable for students for whom genetics is part of a broader program in biology biochemistry the biomedical sciences or biotechnology This book presents the basic facts and concepts with enough depth of knowledge to stimulate students to move on to more advanced aspects of the subject This second edition has been thoroughly updated to cover new discoveries and developments in genetics from the last ten years There are new chapters that introduce important techniques such as DNA sequencing and gene editing and the applications of genetics in our modern world are covered in chapters describing topics as diverse as gene therapy and the use of ancient DNA to study prehistoric ecosystems **Key Features** This book provides a molecular approach to the study of genetics It is a highly accessible and well structured book with chapters organized into four parts to aid navigation It presents high quality illustrations to elucidate the various concepts and mechanisms Each chapter ends with a **Key Concepts** section which serves to summarize the most essential points Self study questions enable the reader to assess their comprehension of chapter content and discussion topics facilitate a deeper understanding of the material by encouraging conversation and critical evaluation Key terms are emboldened throughout the text and are listed at the end of each chapter and definitions can be found in the Glossary For instructors who adopt the book an affiliated question bank is free to download **Resources in Education**, 1998 *Genetic Engineering 225 Success Secrets - 225 Most Asked Questions on Genetic Engineering - What You Need to Know* Gloria Miller, 2014 There has never been a Genetic engineering Guide like this It contains 225 answers much more than you can imagine comprehensive answers and extensive details and references with insights that have never before been offered in print Get the information you need fast This all embracing guide offers a thorough view of key knowledge and detailed insight This Guide introduces what you want to know about Genetic engineering A quick look inside of some of the subjects covered Genetic engineering in fiction Cosmic Era Genetic engineering BioArt and entertainment Genetically modified tomato Techniques of genetic engineering Constructs History of genetic engineering Early genetically modified organisms Genetic engineering in fiction Olaf Stapledon Food security Hybridization genetic engineering and loss of biodiversity *Clostridium acetobutylicum* In genetic engineering Genetic engineering in fiction Idiocracy Biofuel Second generation advanced biofuels Genetic engineering Controversy Genetic engineering in fiction Development Genetic engineering in fiction Metal Gear series Genetic engineering in fiction The Seedling Stars James Blish Genetic engineering in the United States Regulation Genetic engineering in fiction Eugenics Genetic pollution Genetic engineering Genetic

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