

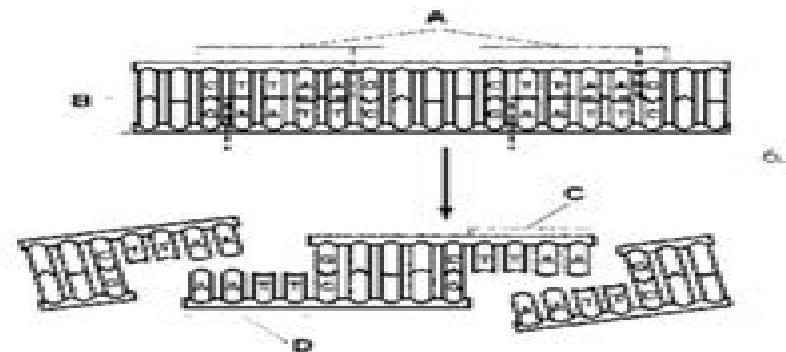
Name: _____

Genetic Engineering – Practice what you know

1. In which 2 ways can we "change" the genome of an organism? _____ We can delete or add genes to the genome of an organism. _____
2. What is a **transgenic** organism? _____ An organism with a gene from a different species. _____
3. What is a **clone**? _____ Genetically identical organism. _____

Tools : Cutting the DNA

4. What is a **restriction enzyme**? _____ An enzyme that cuts DNA at specific locations. _____
5. What does this figure to the right show?
 - a. gel electrophoresis
 - b. DNA sequencing
 - c. a restriction enzyme producing a DNA fragment
 - d. polymerase chain reaction



Between which nucleotides is the DNA cut?

- a. adenine and thymine
- b. cytosine and guanine
- c. thymine and cytosine
- d. adenine and guanine

----This is the cutting pattern of 2 restriction enzymes:----

Eco R1
GAATTC
CTTAAG

Sma 1
CCCGGG
GGGCCC
(Sma1 restriction both strands)

6. Cut the following piece of DNA using the restriction enzyme Eco R1.

GGCCGGGGCATG|AATTCGCGTATCGTG|AATTCTGGGCCCATCAG|AATTCAA
CGGGCCCCGTACTTAA|GCGCATAGCACTTAA|GACCCGGGTAGTCTTAA|GTT

7. How many fragments of DNA do you get? _____ 4 _____

Answer Key For Genetic Technology

Mr. Rohit Manglik



Answer Key For Genetic Technology:

CK-12 Biology Teacher's Edition CK-12 Foundation, 2012-04-11 CK 12 Biology Teacher s Edition complements the CK 12 Biology Student Edition FlexBook **Biotechnology, Molecular Biology and Genetic Engineering of Plants** Mr. Rohit Manglik, 2024-03-24 Covers plant biotechnology molecular biology and genetic engineering Focuses on gene manipulation crop improvement and biotechnological applications in agriculture **Objective Seed Science and Technology 2nd Ed.** K. Vanangamudi, S. Kavitha, K. Raja, 2020-05-20 Objective Seed Science and Technology is prepared based on the ICAR UG syllabus of Seed Science and Technology This book is the compilation of Frequently Asked Questions FAQs in Seed Science and Technology which will be highly useful in writing competitive examinations like ASRB NET JRF SRF Ph D entrance Bank UPSC Agricultural Horticultural and Seed Certification Officers The 2nd revised Edition comprises two sections namely 1 Seed Science and Technology Principles and Practices and 2 Advances in Seed Physiology and Biochemistry The section 1 consists of eight units such as floral and seed biology seed production including breeding methods seed processing seed quality control seed storage seed health seed industry and marketing and protection of plant varieties including DUS The section 2 consists of three units namely seed development and maturation seed dormancy and germination and seed deterioration Each chapter includes Multiple Choice Questions MCQs fill in the blanks true or false match the following answer the incorrect statement arrange in order and differentiate between the following Abbreviations National and International journals and books International STLs Seed Scientists and their inventions and glossaries are also compiled and presented in this book *TEXT BOOK OF PHARMACEUTICAL BIOTECHNOLOGY*, 2025-06-12 The Text Book of Pharmaceutical Biotechnology is a comprehensive academic resource designed to provide in depth knowledge of biotechnological principles as they apply to pharmaceutical sciences It opens with a foundational introduction to biotechnology exploring its significance and scope within the pharmaceutical industry A particular focus is placed on enzyme biotechnology detailing methods of enzyme immobilization and their wide ranging applications along with the crucial role of biosensors These biosensors vital in modern pharmaceutical development are examined in terms of their function and practical utility The book also introduces the reader to protein engineering and emphasizes the industrial applications of microbial organisms Detailed sections cover the production of essential enzymes such as amylase catalase peroxidase lipase protease and penicillinase along with general considerations for each The second section delves into the core of genetic engineering providing a solid understanding of cloning vectors restriction enzymes and recombinant DNA technology It emphasizes practical applications of genetic engineering in producing interferons vaccines like hepatitis B and critical hormones such as insulin An introductory look at PCR techniques rounds out this segment The book proceeds to immunology presenting concepts of immunity immunoglobulin structures MHC functionality and hypersensitivity responses It also outlines vaccine production hybridoma technology and methods of immune modulation Further the text explores advanced

immunoblotting techniques such as ELISA Western blotting and Southern blotting explaining their principles procedures and relevance in diagnostics Genetic organization in both eukaryotes and prokaryotes is analyzed along with microbial genetics mechanisms like transformation conjugation and transduction A separate chapter covers microbial biotransformation and mutations addressing both theoretical and applied aspects Fermentation science receives thorough attention from equipment and sterilization to large scale production processes for key pharmaceuticals like penicillin and citric acid Finally the book examines blood products and plasma substitutes detailing their collection processing and storage and highlighting their critical role in therapeutic applications Overall this textbook serves as an essential guide for students and professionals seeking to master the intersection of biotechnology and pharmaceutical development Genetics and Plant Breeding Mr.

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