



BIOLOGY

BOOKS - PSEB

BIOTECHNOLOGY AND ITS APPLICATIONS

Exercise

1. Crystals of Bt toxin produced by some bacteria do not kill the bacteria because



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2. Crystals of Bt toxin produced by some bacteria do not kill the bacteria because



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3. Crystals of Bt toxin produced by some bacteria do not kill the bacteria because



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4. What are transgenic bacteria? Illustrate using any one example.



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5. Compare and contrast the advantages and disadvantages of production of genetically modified crops.



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6. What are Cry proteins? Name an organism that produce it. How has man exploited this protein to his benefit?



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7. What is gene therapy ? Illustrate using the example of adenosine deaminase deficiency (ADA).



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8. Diagrammatically represent the experimental steps in cloning and expressing an human gene [say the gene for growth hormone) into a bacterium like E. coli?



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9. Can you suggest a method to remove oil [hydrocarbon) from seeds based on your understanding of rDNA technology and chemistry of oil?



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10. Find out from internet what is golden rice.



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11. Does our blood have proteases and nucleases?



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12. Consult Internet and find out how to make orally active protein pharmaceutical. What is the major problem to be encountered?



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