



BIOLOGY

NCERT - NCERT BIOLOGY(TELUGU)

BIOTECHNOLOGY AND ITS APPLICATIONS

Exercises

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

because –

- (a) bacteria are resistant to the toxin
- (b) toxin is immature,
- (c) toxin is inactive,
- (d) bacteria encloses toxin in a special sac.



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



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



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



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



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6. 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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7. 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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8. Find out from internet what is golden rice.



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9. Does our blood have proteases and nucleases ?



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



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