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CBSE Class12 Biology Chapter 12 Unsolved Important Questions Biotechnology and its Applications

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CBSE Class 12 Biology Biotechnology and its Applications

Section 'A'

Q.1.	Why do children cured by enzyme-replacement therapy for adenosine deaminase deficiency need periodic treatment?
Q.2.	State the role of C peptide in human insulin.
Q. 3.	State the role of transposons in silencing of mRNA in eukaryotic cells.
Q. 4.	How is 'Rosie' considered different from a normal cow? Explain.
Q. 5.	What was the specialty of the milk produced by the transgenic cow Rosie?
Q.6.	What are Cry genes? In which organism are they present?
Q.7.	What is Biopiracy?
Q.8.	Name the Indian variety of rice patented by an American Company.
Q.9.	What is bio piracy?
and and	Section 'B'
Q.10.	Why is proinsulin so called? How is insulin different from it?

Q.11. Write the function of adenosine deaminase enzyme. State the cause of ADA

Deficiency in humans. Mention a possible permanent cure for an ADA deficiency

- Q.12. (a) State the role of DNA ligase in biotechnology.
 - (b) What happens when Meloidegyne incognitia consumes cells with RNAi gene?
- Q.13. Explain how a hereditary disease can be corrected. Give an example of first successful attempt made towards correction of such diseases.
- Q.14. Explain the process of RNA interference
- Q.15. What is biopiracy?
- Q.16. Why is the introduction of genetically engineered lymphocytes into a ADA deficiency patient not a permanent cure? Suggest a possible permanent cure.
- Q.17. How is 'Rosie' considered different from a normal cow? Explain.
- Q.18. Why is the introduction of genetically engineered lymphocytes into a ADA deficiency patient not a permanent cure? Suggest a possible permanent cure.

Section 'C'

- Q.19. Name the insect pest that is killed by the products of cryIAC gene. Explain how the gene makes the plant resistant to the insect pest.
- Q.20. Explain enzyme-replacement therapy to treat adenosine deaminase deficiency Mention two disadvantages of this procedure.
- Q.21. Name the pest that destroys the cotton bolls. Explain the role of Bacillus thuringiensis in protecting the cotton crop against the pest to increase the yield.
- Q.22. (a) Tobacco plants are damaged severely when infested with Meloidegyne incognita. Name and explain the strategy that is adopted to stop this infestation.
 - (b) Name the vector used for introducing the nematode specific gene in tobacco plant.

- Q.23. Both Haemophilia and Thalassemia are blood related disorders in humans. Write their causes and the difference between the two. Name the category of genetic disorder they both come under.
- Q.24. How has RNAi technique helped to prevent the infestation of roots in tobacco plants by a nematode Meloidegyne incognitia?
- Q.25. Recombinant DNA-technology is of great importance in the field of medicine. With the help of a flow chart, show how this technology- has been used in preparing genetically engineered human insulins.
- Q.26. How did the process of RNA interference help to control the nematode from infecting roots of tobacco plants? Explain.
- Q. 27. Name the genes responsible for making Bt cotton plants resistant to bollworm attack. How do such plants attain resistance against bollworm attacks? Explain.
- Q.28. Describe any three potential applications of genetically modified plants.
- Q.29. How did an American Company, Eli Lilly use the knowledge of r-DNA technology to produce human insulin?
- Q.30. Why do lepidopterans die when they feed on Bt cotton plant? Explain how does it happen.

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