

ACHIEVERS FOUNDATION

Max Marks : 30

Class-12th

Subject- Biology

Topic- Biotechnology and its application

1. Name the bacterium which is used to produce insect-resistant plants by genetic engineering. [1]
2. Name any disease against which vaccine is developed by Recombinant DNA technology. [1]
3. Name the technique which is used to detect HIV in Suspected AIDS patient? [1]
4. Name any two diseases for which transgenic mice are used as model organisms. [1]
5. Name any one disease for which gene therapy has been proved effective? [1]
6. What is the difference between 'Cry' & 'CRY'. [2]
7. How is autoradiography used to detect a mutated gene? [2]
8. Why did Bacterial toxin does not kill the bacteria but only the insects? [2]
9. Mention any four applications of Biotechnology in the field of Agriculture? [2]
10. Why is recombinant Insulin produced by genetic engineering need to be processed? [2]
11. What is RNA Silencing? How is this strategy used to create pest – resistant plants? [3]
12. What are the steps involved in synthesis of genetically engineered insulin. [3]
13. Why transgenic animal are used to treat the disease, contain biological product? [3]
14. What are genetically modified plants? Write the advantages of these types of plants ? [3]
15. How Bt toxins are killed microorganism in plants? [3]