

BHARATIYA VIDYA BHAVAN'S V.M.PUBLIC SCHOOL, VADODARA
SESSION 2017-18
Question Bank

CHAPTER-12

BIOTECHNOLOGY AND ITS APPLICATIONS

VERY SHORT ANSWER TYPE QUESTIONS (1 marks each)

- Q1 Give the full form of SCID.
- Q2 What is Bt cotton?
- Q3 What is 'flvr savr' ?
- Q4 What are the transgenic animals?
- Q5 How is patent given?
- Q6 Name the first transgenic cow?
- Q7 Distinguish between Cry and cry.
- Q8 What is gene therapy?
- Q9 Name four transgenic animals.
- Q10 What is chemeric DNA?

SHORT ANSWER TYPE QUESTIONS (2 marks each)

- Q1 Expand GEAC. Give its functions.
- Q2 What are genetically modified organisms? Name two factors on which their behaviour depends.
- Q3 What is PCR.
- Q4 How is early detection of infectious disease possible by molecular diagnosis?
- Q5 What are the conditions for which patent is given?
- Q6 Why are yeasts used extensively for functional expression of eukaryotic genes?
- Q7 Mention the problems when we consume GM food.
- Q8 Define biopiracy.
- Q9 What is legally wrong in the US patent law? Mention the common items of biopiracy.

SHORT ANSWER QUESTIONS (3 marks each)

- Q1 Name the biological products made in transgenic animal to treat emphysema.
- Q2 What are the transgenic bacteria? Illustrate using any one example.
- Q3 Write a brief account of genetically engineered insulin.
- Q4 Differentiate between PCR and gene cloning.
- Q5 Mention some transgenic plants and their potential applications.

LONG ANSWER QUESTIONS (5 marks each)

- Q1 Name the soil bacterium that produces a protein/chemical that is toxic to insect pests. Show with example that the different forms of them encoded by different forms of genes are insect specific.
- Q2 Why are transgenic animals produced? Describe with examples.
- Q3 Explain the different uses of biotechnology in medical field.
- Q4 What are transgenic animals? Explain any four ways in which such animals can be beneficial to humans.

CHAPTER 13