



# BIOLOGY

## BOOKS - BAL BHARTI

### CELL BIOLOGY AND BIOTECHNOLOGY

**Can You Recall**

**1. What is cell?**



**Watch Video Solution**

2. What is tissue? Which are the functions of tissue?



**Watch Video Solution**

3. Which technique in relation to tissues have you studied in earlier classes?



**Watch Video Solution**

4. Which are the various processes in tissue culture?



[Watch Video Solution](#)

**Use Your Brain**

1. Just like the grafting in plants, is organ transplantation possible in humans?



[Watch Video Solution](#)

## Recall A Little

1. What is biotechnology?



**Watch Video Solution**

2. In which various fields, biotechnology has been useful?



**Watch Video Solution**

3. What is the impact of biotechnology on agricultural and other related fields?



[Watch Video Solution](#)

## Make A List And Discuss

1. Give five examples each of the fruiting and flowering plants developed through tissue culture and mention their benefits.



[Watch Video Solution](#)

2. Which fruit processing industries you observe in your surrounding? What is their effect?



[Watch Video Solution](#)

## Collect Information

1. Which new species of rice have been developed in India?



 [Watch Video Solution](#)

## Exercise Fill In The Blanks

1. Methods like artificial insemination and embryo transplant are mainly used for \_\_\_\_\_.



[Watch Video Solution](#)

2. Choose the correct alternative and write its alphabet against the sub question number :

.....is the revolutionary event in biotechnology after cloning.



[Watch Video Solution](#)

3. The disease related with the synthesis of insulin is \_\_



[Watch Video Solution](#)

4. Government of India has encouraged the \_\_\_\_\_ for improving the productivity by



lauching NKM - 16.



[Watch Video Solution](#)

## Exercise

1. Match the pairs.

- |                 |                    |
|-----------------|--------------------|
| a. Interferon   | 1. Diabetes        |
| b. Factor 8     | 2. Dwarfness       |
| c. Somatostatin | 3. Viral infection |
| d. Interleukin  | 4. Cancer          |
|                 | 5. Haemophilia     |



[Watch Video Solution](#)

2. Changes in genes of the cells are brought about in non-genetic technique.



[Watch Video Solution](#)

3. Gene from *Bacillus thuringiensis* is introduced into soybean.



[Watch Video Solution](#)

4. Write a short note on Biotechnology - Professional uses.



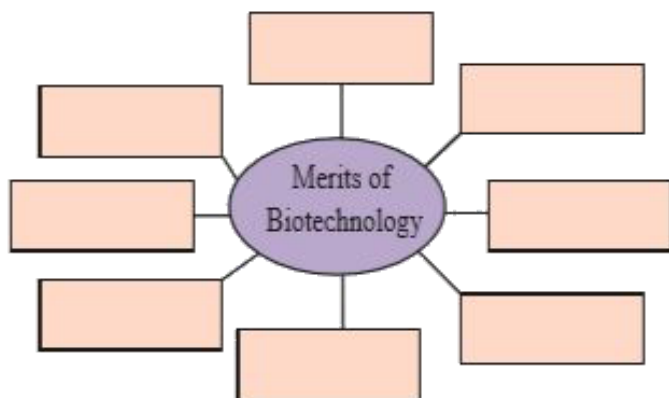
**Watch Video Solution**

5. Write a short note on the importance of medicinal plants.



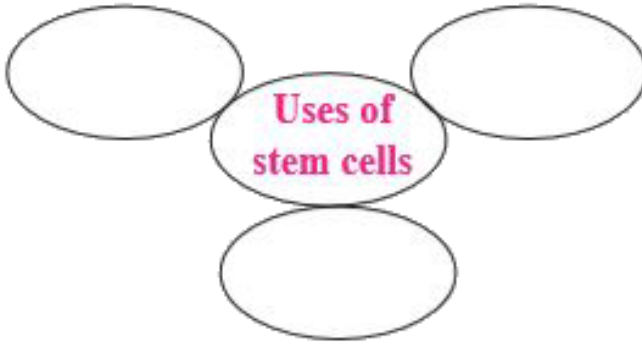
**Watch Video Solution**

6. Complete the following chart.



**Watch Video Solution**

7. Write the correct answer in blank circles.



[Watch Video Solution](#)

8. Identify and complete the following correlations

Insulin : Diabetes :: Interleukin : -- -- --



[Watch Video Solution](#)

9. Identify and complete the following correlations

Interferon : - - :: Erythropoietin : Anaemia.



[Watch Video Solution](#)

10. Identify and complete the following correlations

----- : Dwarfness :: Factor VIII : Haemophilia.



[Watch Video Solution](#)

**11.** Identify and complete the following correlations

White revolution : Dairy :: Blue revolution : -- --  
-- --.



**Watch Video Solution**

**12.** Write a comparative note on usefulness and harmfulness of biotechnology.



**Watch Video Solution**

## Exercise Answer The Following Questions In Your Own Words

1. Which products produced through biotechnology do you use in your daily life?



[Watch Video Solution](#)

2. Which precautions will you take during spraying of pesticides?



[Watch Video Solution](#)



3. Why some of the organs in human body are most valuable?



[Watch Video Solution](#)

4. Explain the importance of fruit-processing in human life.



[Watch Video Solution](#)

5. Explain the meaning of vaccination.



**Watch Video Solution**