



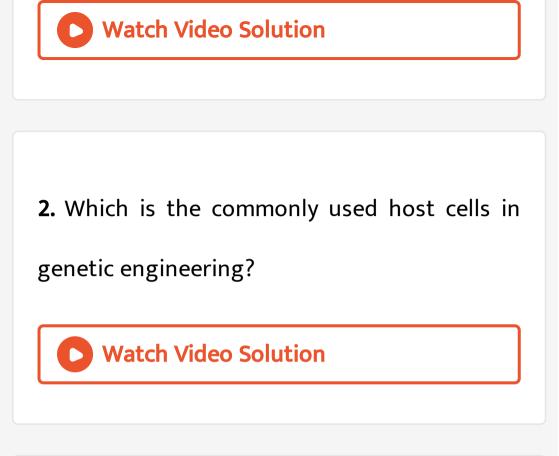
BIOLOGY

BOOKS - SUPER COMPANION 5 IN 1

BIOTECHNOLOGY : PRINCIPLES AND PROCESSES

One Mark Questions And Answers

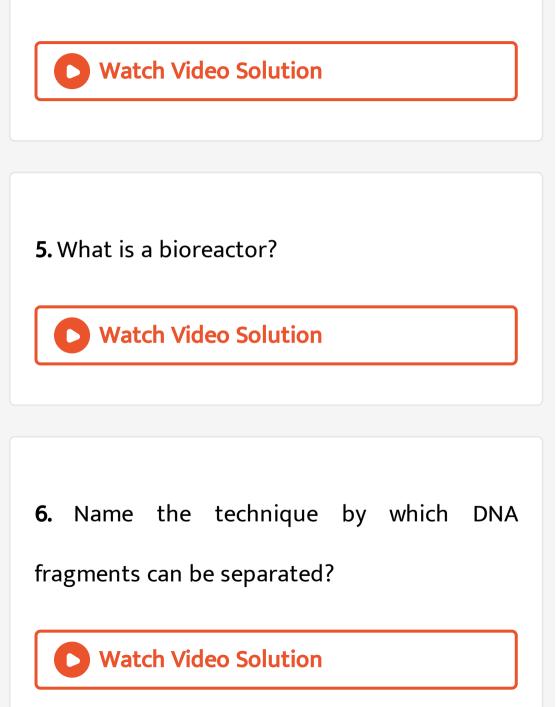
1. Do eukaryotic cells have restriction endonucleases? Justify your answer.



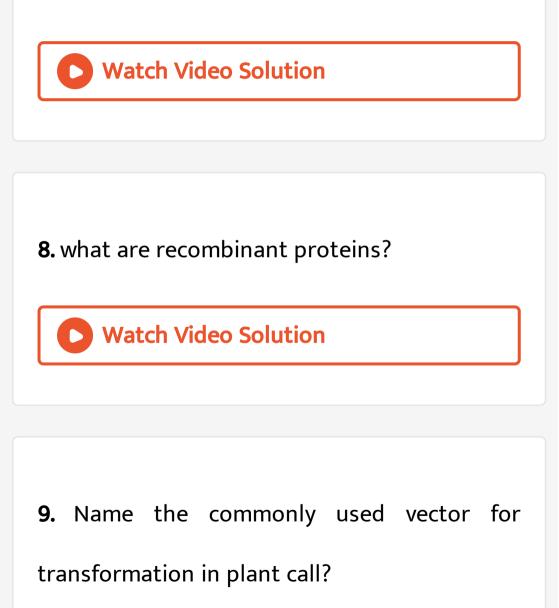
3. Which are the common vectors used for

cloning genes in plants?

4. Who discovered the technique of PCR?



7. Name the source of Taq polymerase?







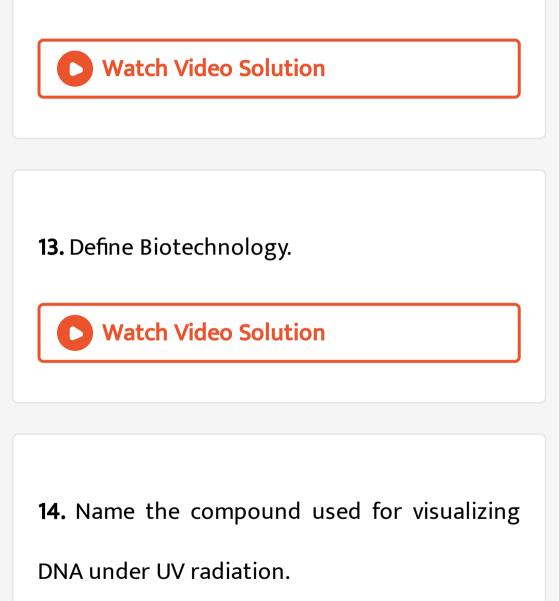
10. Who isolated Restriction enzyme for the

first time?

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11. Define a patent?

12. Define the term plasmid.



Two Mark Questions And Answers

- 1. Describe briefly the following :
- (a) Origin of replication
- (b) Bioreactors
- (c) Downstream processing .



2. Explain briefly:

(a) PCR

(b) Restriction enzymes and DNA

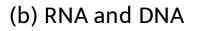
(c) Chitinase

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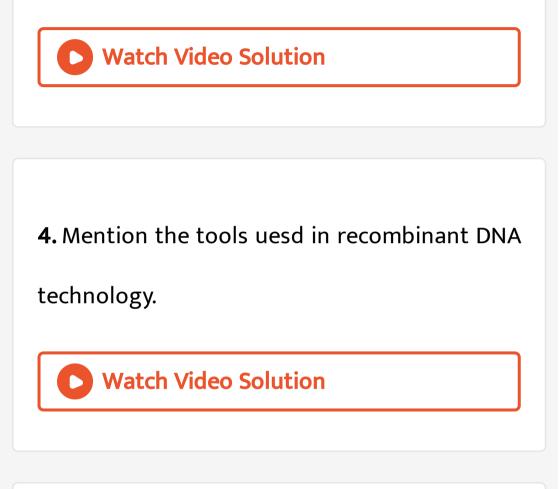
3. Discuss with your teacher and find out how

to distinguish between the following:

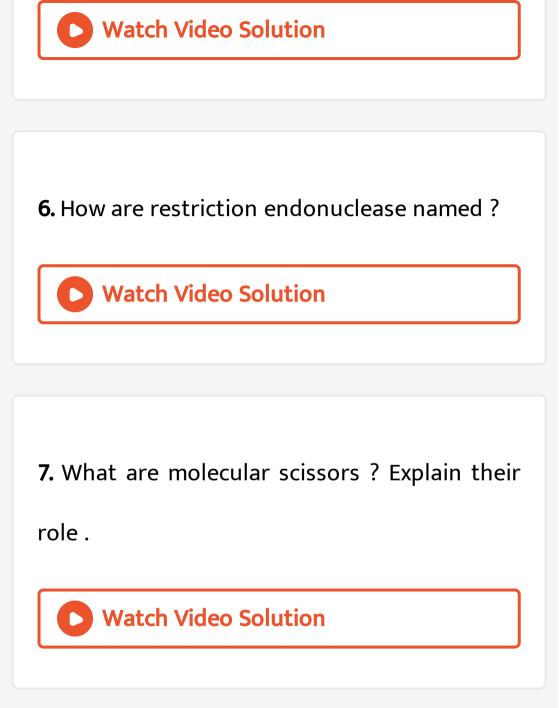
(a) plasmid DNA and Chromosomal DNA

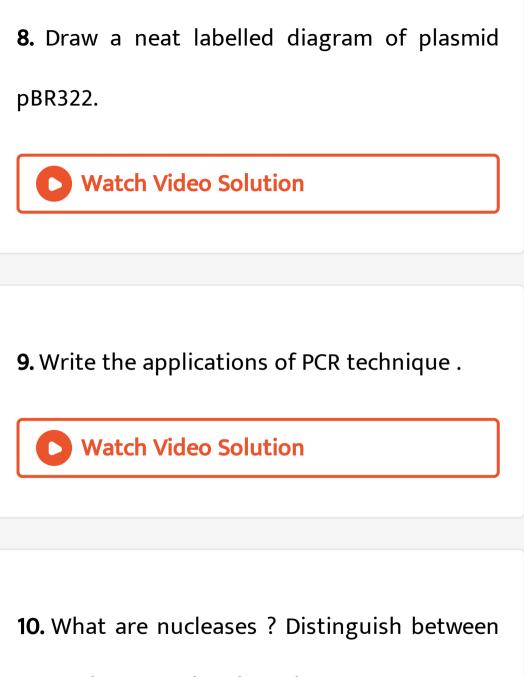


(c) Exonuclease and Endonuclease.

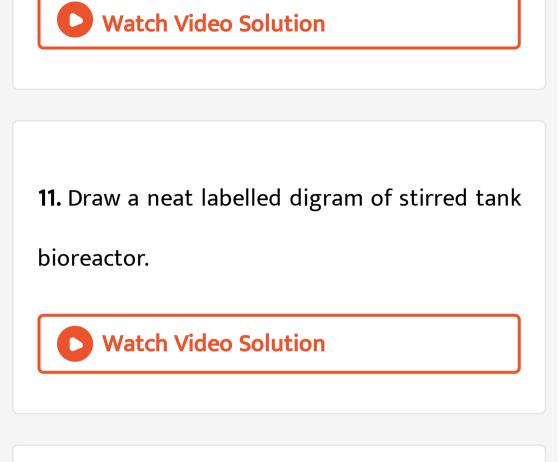


5. What are palindromic sequences? Give an example.





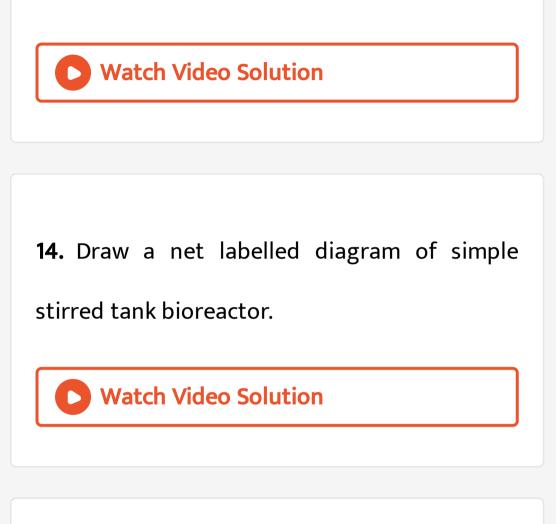
exonucleases and endonucleases .



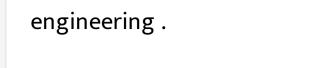
12. What are 'Selectable markers"? What is

their use in genetic engineering?

13. What is "Insertional inactivation "?



15. What are bioreactors ? Name the most commonly used bioreactor in genetic



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Three Marks Questions With Answers

1. What are the two basic techniques involved

in modern Biotechnology?



2. What are genetically modified organisms ?
Name two factors on which their behaviour depends.



3. What do you mean by"Biopiracy" Give an example?

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Five Mark Questions And Answers

1. Explain the process of recombinant DNA

technology.

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2. With the help of a diagram explain plasmid

BR322.

3. a) What is gel electrophoresis? Explain how DNA fragments are separated and detected using this technique.

b) What are plasmids? Mention any two

features of an ideal plasmind.

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4. Mention any three tools used in genetic

engineering with examples for each.

