



BIOLOGY

BOOKS - PSEB

BIOTECHNOLOGY: PRINCIPLES AND PROCESSES

Exercise

1. From what you have learnt, can you tell whether enzyme are bigger or DNA Is bigger in

molecular size? How did you know?



2. What would be the molar concentration of human DNA in a human cell? Consult your teacher.



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

4. Besides better aeration and mixing properties, what other advantages do stirred tank bioreactors have over shake flasks?



5. Collect 5 examples of palindromic DNA sequences by consulting your teacher. Better

try to create a palindromic sequence by following base -pair rules.



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6. Can you recall meiosis and Indicate at what stage a recombinant DNA is made?



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7. Describe briefly the following: Origin of replication



8. Describe briefly the following: Bioreaetors



9. Describe briefly the following: Downstream processing



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10. Explain briefly: PCR



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11. Describe briefly Restriction Enzymes and DNA.



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12. Explain briefly: Chitinase



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13. Discuss with your teacher and find mil how to distinguish between : Plasmid DNA and Chromosomal DMA



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14. Discuss with your teacher and find mil how to distinguish between: RNA and DNA



15. Discuss with your teacher and find mil how to distinguish between : Exonuclease and Endonuclease



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