ASSIGNMENT

1.Give in brief the history of manufacture of fermenter?
2.What are the basic components of the fermenter?
3.What is upstream manufacturing?
4. What is a bioreactor?
5.Mention the general requirements of the bioreactor.
6.Explain in detail the downstream processing.
7. What is bio-processing and describe its various stages?
8.Briefly mention the aeration system of industrial fermentors.
9.Discuss basic attributes of a fermenter for microbial or animal cell culture.
10.Mention the types of bioreactor, describe two of them.