Your answers should be specific to the questions asked Draw neat labeled diagrams wherever necessary

LONG ESSAY (Answer any FOUR)

4 X 25 = 100 Marks

- a) Describe the morphology and physiology of Bacteria
 - b) Discuss the nutritional requirements for the growth of Bacteria
- a) Describe the replication of virus? Add a note on importance of virus in ferementation 2. Industry
 - b) Write on batch and continious culture
- a) Explain the applications of plant cell culture
 - b) Describe the microbiological; assay of vitamin B₁₂
- a) Discuss in detail the ferementative process technology production of streptomycin with flow 4.
 - b) Write on uses of yeast & yeast products
- a) Describe microbial Biotransformation of alkaloids
 - b) What are primary and secondary metabolites? Explain the importance of secondary metabolites in fermentation Industry
- Write short notes on: 6.
 - a) Plasmids
 - b) Production of Glutomic acid
 - www.FirstRanker.com c) Industrial effluents & treatment
 - d) Patents
 - e) Riboflavin

