M.Sc.(Microbiology) (CBCS Pattern) Third Semester

PSMBT-11 - Paper-III: Bioprocess Technology

GUG/W/18/11293 P. Pages: 1 Time: Three Hours Max. Marks: 80 1. Write notes on. Construction, design and parts of fermenters. 8 b) Types of bioreactor. 8 OR Write in detail about process optimization of fermentation. 16 2. Describe ion exchange chromatography in detail. 16 OR Write notes on. a) Purification methods. 8 8 Drying techniques. b) **3.** Explain the production of ethanol by S.Cerevisiae in detail. 16 OR Write notes on. Production of streptomycin. 8 a) Production of dextran. b) 8 4. Describe in details production of glucose oxidase. 16 OR Write notes on. Production of riboflavin. 8 a) Production of amylase. 8 5. Write short notes on. Monods model. Reverse osmosis. b) Steroid transformation. c) d) Carotenoids production.
