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

PSMBT-107 - Paper-III: Microbial Methods for Environmental Management (MMEM)

GUG/W/18/11218 P. Pages: 1 Time: Three Hours Max. Marks: 80 All the questions are compulsory and carry equal marks. 1. Describe the microbial changes induced by organic and inorganic pollutants during 16 eutrophication. OR Describe: Biodeterioration of pharmaceutical products. 8 a) Biomagnification of chlorinated hydrocarbons. b) 2. Describe the biotransformation of metals and metalloids. **16** OR Write note on followings. Biodegradation of plastics. a) 8 b) Bioleaching of copper. **3.** Describe the followings. Activated Sludge Process. 8 a) Trickling filter. b) 8 OR Write note on followings: Aerated lagoons. a) 8 Fluidized bed reactor. b) 8 4. Discuss the biotechnological approaches for management of Global environment problems. 16 OR Write note on followings. Global Warming. 8 a) b) Acid mine drainage. 8 5. Write short note on followings. Control of eutrophication. a) 4 Application of bioleaching. b) Phytoremediation. c) Acid rain. d)
