

M.Sc.F.Y. (Microbiology) Second Semester Old  
**MB2-T007-Paper-III : Microbial Methods For Environment Management**  
**(MMEM)**

P. Pages : 1

Time : Three Hours



**GUG/W/18/2236**

Max. Marks : 80

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- Notes : 1. All questions are compulsory and carry equal marks.  
2. Draw diagram wherever necessary.

1. Describe the different factors responsible for eutrophication process. Add note on control of eutrophication. **16**
- OR**
- Write short notes on:
- a) Biodeterioration of woods. **8**
- b) Biomagnification of hydrocarbons. **8**
2. Write about different leaching techniques and its application. **16**
- OR**
- Write notes on:
- a) Biotransformation of hexachlorobenzene. **8**
- b) Biodegradation of plastics. **8**
3. Write in details about the concept of phytoremediation and its application. **16**
- OR**
- Write notes on;
- a) Rotatory biological contactors. **8**
- b) Trickling filters. **8**
4. Describe the impact of green house effect. Write role of biotechnology in its managements. **16**
- OR**
- Write notes on:
- a) Ozone depletion. **8**
- b) Global Warming. **8**
5. a) Describe the microbial changes induced by organic pollutants. **4**
- b) Writes in brief about bioleaching of ores. **4**
- c) Write about activated sludge process. **4**
- d) Write about acid mine drainage. **4**

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