

M.Sc. (Microbiology) (NEP Pattern) Semester-II
02MSCMB04 - Microbial Methods for Environment Management

P. Pages : 1

Time : Three Hours



GUG/S/25/15409

Max. Marks : 80

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

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| 1. | What is biomagnification? Describe in detail biomagnifications of chlorinated hydrocarbons and pesticides. | 16 |
| OR | | |
| | i) Discuss in detail factors influencing eutrophication process. | 8 |
| | ii) Describe in detail biodeterioration of pharmaceutical products. | 8 |
| 2. | What is Bioleaching? Describe in detail leaching techniques and applications. | 16 |
| OR | | |
| | i) Give the account of biotransformation of pesticides. | 8 |
| | ii) Discuss in detail biodegradation of plastics. | 8 |
| 3. | Describe in details waste water management using activated sludge and trickling filter. | 16 |
| OR | | |
| | i) Give the account concept of phytoremediation and applications. | 8 |
| | ii) Discuss in detail rotary biological contractors. | 8 |
| 4. | Describe in detail global warming and climate change. | 16 |
| OR | | |
| | i) Discuss in detail green house effect. | 8 |
| | ii) Give the account of ozone depletion. | 8 |
| 5. | Write in short. | |
| | i) Discuss in detail eutrophication. | 4 |
| | ii) Discuss in detail bioleaching of ores. | 4 |
| | iii) Discuss in detail aerated lagoons. | 4 |
| | iv) Discuss acid mine drainage. | 4 |
