

M.Sc. (Biotechnology) (NEP Pattern) Semester-IV
STPG04BTH001 - Paper-I : Environmental Biotechnology

P. Pages : 1

Time : Three Hours



GUG/S/25/16311

Max. Marks : 80

Note : All questions are compulsory and carry equal marks.

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| 1. | Explain the various types of water pollutants. | 16 |
| OR | | |
| | a) Write note on- greenhouse effect. | 8 |
| | b) Explain the effect of ozone depletion on global environment. | 8 |
| 2. | Explain the various types of ecological pyramids with suitable example. | 16 |
| OR | | |
| | a) Explain the structure and function of Ecosystem. | 8 |
| | b) Explain the role of biotechnology in bio conservation. | 8 |
| 3. | Give the schematic representation of Nitrogen cycle & explain the symbiotic nitrogen fixation. | 16 |
| OR | | |
| | a) Explain the construction of biogas plant. | 8 |
| | b) Write note on biofuel cells & its uses. | 8 |
| 4. | Explain the role of r-DNA technology in N ₂ -fixation processes. | 16 |
| OR | | |
| | a) Write note on- Biopesticides. | 8 |
| | b) Write note on- Integrated pest management. | 8 |
| 5. | Write an account on- | |
| | a) Acid rain. | 4 |
| | b) Biotic & abiotic factors. | 4 |
| | c) Biochips. | 4 |
| | d) Earthworm as biofertilizer. | 4 |
