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**BSE 511**

**Third Semester M.Sc. Degree Examination, December 2018**

**(Choice Based Credit System)**

**BIOSCIENCES**

**Pollution and Bioremediation (Open Elective) (Choice Based Paper)**

Time : 3 Hours

Max. Marks : 70

1. Write short notes on **any four** of the following (**not** exceeding **2** pages **each**) : **(4×4=16)**
- Radioactive pollution
  - Industrial pollutants
  - Sulphur oxides
  - CFC's
  - Global warming
  - Chemical remediation.

Write explanatory notes on **any five** of the following (**not** exceeding **3** pages **each**) : **(5×6=30)**

- Land pollution.
- Types and standards of water pollutants.
- Major sources and types of atmospheric pollutants.
- Asbestos.
- Secondary pollutants.
- Physical remediation.
- Microbial remediation.

Answer **any two** of the following (**not** exceeding **8** pages **each**) : **(2×12=24)**

- Discuss domestic and municipal wastes as sources of water pollution. Write their impacts on aquatic biota.
- Describe the impact of air pollutants on ozone depletion and haze.
- Explain in detail about biological treatment of solid wastes.