

**JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT**

**TEST-1 EXAMINATIONS- 2024**

M.Sc. 2nd Semester (BT)

COURSE CODE (CREDITS): 20MSWBT232

**MAX. MARKS: 15**

COURSE NAME: Environmental Biotechnology

COURSE INSTRUCTORS: Ashok Kumar Nadda

**MAX. TIME: 1 Hour**

*Note: All questions are compulsory. Marks are indicated against each question in square brackets.*

**Section I**

**Q1. Answer the following questions. Each question is carrying one mark only.**

- How does the lead and mercury affect the health of human beings? Name the diseases produced by these pollutants. (Marks 1)
- Write the Key intervention points of environmental biotechnology. Why we need to study Environmental Biotechnology? (Marks 1)
- Enlist the major pollutants degraded by methylotrophs and ligninolytic fungi (Marks 1)
- What is Intrinsic and passive bioremediation (Marks 1)

**Section II**

- Q 2** What are major implications of water and noise pollution? (Marks 2)
- Q 3** Write a brief note on plastic pollution and its consequences on fauna and flora (Marks 2)
- Q 4** What is the building up criteria of hazardous waste? Enlist the various hazardous wastes present in our surrounding vicinities (Marks 2)

**Section III**

- Q 7** Write a short note of followings. ( $0.5 \times 4 = 2$ )
- Biostimulation
  - Bioventing
  - Biosparging
  - Mineralization
- Q 8** What are the different types of Phytoremediation techniques? How phytoremediation does considered as more effective to remove highly dispersed pollutants with low concentration (Marks 3)