

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT

T-1 EXAMINATION- Feb 2019

Ph.D. 2nd Semester

COURSE CODE: 10M1WBT231

MAX. MARKS: 15

COURSE NAME: Applied Environmental Biotechnology

COURSE CREDITS: 3

MAX. TIME: 1 Hr

Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. Use of calculator is allowed.

Q1 Explain the following terms. (1×3= 3 marks) CO I

- (a) Bioventing
- (b) Biopiles
- (c) Mineralization

Q 2 Give the examples of microbial genera involved in the bioremediation of crude oil and polychlorinated biphenyls. (2 marks) CO II

Q 3 What is the goal of environmental biotechnology? Explain briefly. (2 marks) CO I

Q 4 Write a short note on bio-augmentation and bio-sparging. (3 marks) CO II

Q 5 What is phytoremediation? Explain the various types of phytoremediation. (5 marks)

CO II