

JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT
Test 3 EXAMINATION- May 2018
B.Tech. Dual Degree/ M.Tech/Ph.D.

COURSE CODE: 10B1WBT737
COURSE NAME: ENVIRONMENTAL BIOTECHNOLOGY
COURSE CREDITS: 3

MAX MARKS: 35
TIME: 2.0 Hrs.

Note: All questions are compulsory. Attempt all questions of a particular section at one place.
Answer each question to the point.

Q No. 1 Describe about the biomethanation and landfill gas? (2 marks)
(COII)

Q No. 2 What is phytoremediation? Explain the different types of phytoremediation? (3 marks)
(CO II)

Q No. 3 Explain the toxicity and effects of lead and PCBs on human health? What are the mechanisms for the sequestration of heavy metals? (4 marks)
(CO III)

Q No. 4 Discuss about the infectious waste and its types? (3 marks)
(CO III)

Q No. 5 Explain the thermo-chemical conversion of biomass and its different types. (4 marks)
(CO IV)

Q No. 6 Answer the followings. (CO IV)
(a) Write a brief note on windrow composting and landfill cycling. (3 marks)

(b) Explain the methods of disposal of municipal solid waste. (3 marks)

Q No. 7 What are bio-indicators and their different types? Give one example for each type of bio-indicator. (4 marks)
(CO V)

Q. No. 8 What are the different biosensors used in environmental pollution monitoring? (3marks)
(CO IV)

Q No. 9 Answer the followings. (CO V)
(a) Write short notes on the problems of fertilizers and pesticides on modern agriculture. (3 marks)

(b) Write a short note on bio-plastic and bio-adhesives. (3 marks)