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Total number of printed pages – 2

B. Tech
PEBT 5404

Seventh Semester Back Examination – 2014

ENVIRONMENTAL BIOTECHNOLOGY

BRANCH : BIOTECH

QUESTION CODE : L 174

Full Marks – 70

Time – 3 Hours

*Answer Question No. 1 which is compulsory and any **five** from the rest.
The figures in the right-hand margin indicate marks.*



1. Answer the following questions :

2 × 10

- (a) What do you mean by Ozone depletion ?
- (b) What is a biogas ?
- (c) What is metagenomics ?
- (d) What is oil shales ?
- (e) What do you mean by Oil spills ?
- (f) What are fossil fuels ? Give examples.
- (g) What do you mean by bioenergy ?
- (h) What do you mean by biocomposting ?
- (i) What is bioprospecting ?
- (j) What do you mean by bioprospecting ?

2. Explain the different strategies employed for Environmental monitoring with suitable examples.

10

P.T.O.

3. What is Bioremediation ? Discuss the Principles of bioremediation of organic and inorganic contaminants. 10
4. Write notes on :
- (a) Ethical issues in environmental biotechnology. 5
 - (b) Microbial enhanced oil recovery (MEOR). 5
5. (a) What is biofertilizer? Discuss microbes as biofertilizers. 5
- (b) How pesticides contribute to soil pollution ? Explain. 5
6. (a) Write a short note on radioactive pollution. 5
- (b) Write a note on bio plastic technology. 5
7. (a) Biodegradation of hydrocarbon compounds using. 5
- (b) Write a note on Nanobiotechnology and its role in controlling pollution. 5
8. Write short notes on any **two** of the following : 5×2
- (a) Biomicroelectronics
 - (b) Phytoremediation
 - (c) Microbial polymer production
 - (d) Fossil fuels.

