Total No. of Questions :5]

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S.Y.B.Sc.

BIOTECHNOLOGY

Bb-213: Environmental Biology and Biotechnology

(2013 Pattern) (Semester - I)

Time : 3 Hours] ***[Max. Marks :80***

Instructions to the candidates:

1) ***All questions are compulsory.***
2) ***Figures to the right indicate full marks.***
3) ***Draw neat and suitable diagrams wherever necessary.***

Q1) Answer in 2-3 sentences: **[20]**

a) What is xerosere?

b) Enlist the gases emitted by automobiles.

c) What is biocides?

d) Define environment.

e) Explain the term pedogenesis.

f) Define co-metabolism.

g) Define food web.

h) TRAFFIC.

i) Enlist four bioindicators.

j) What is allogenic succession.

P.T.O.

Q2) Answer the following questions (Any three): **[15]**

a) What is lithosphere? Illustrate briefly.

b) Write in brief about green house effect.

c) Give applications of GIS in environmental monitoring.

d) What is biomedical waste? Mention various steps of disposal of biomedical waste.

Q3) a) Enlist and explain different methods of phyto remidiation. Add a note on its advantages and limitations. **[8]**

b) What are ecosystem energetics? Describe the energy flow in a typical ecosystem. **[7]**

OR

a) Elaborate different methods of ex-situ conservation. **[8]**

b) Define ecosystem. Give an account of the structure of aquatic ecosystem. **[7]**

Q4) a) Define biogeography. Explain different biogeographic regions of India. **[8]**

b) Describe in detail sources, effect and control measure of water pollution. **[7]**

OR

a) Give an account of microbial degradation of pesticide. **[8]**

b) Discuss importance of EIA in relation with developmental plans of country. **[7]**

Q5) Write notes on (Any three): **[15]**

a) Types of ecological succession.

b) Phosphorus cycle.

c) Earth summit.

d) Integrated waste management.

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