S. Y. B. Sc. (Biotechnology) SEM – IV (CBCS - 2015 COURSE) : SUMMER - 2019

Subject: Environmental Biotechnology

Day: Monday
Date: 08/04/2019

S-2019-1380

Time: 10.00 AM TO 01.00 PM
Max. Marks: 60

N.B.:

1) Q1 and Q5 are compulsory.
2) Answer ANY TWO questions from Q 2, 3, 4 in Section I.
3) Answer ANY TWO questions from Q 6, 7, 8 in Section II.
4) Answers to Both the sections to be written in 'SAME answer books.
5) Draw a labeled diagram WHEREVER necessary.

SECTION - 01

Q.1) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

a) Give two examples of over-exploitation of water resources.
b) Why is the atmosphere essential for life?
c) Define ozone hole and its effect on human health.
d) Write the constituents of environment.
e) What do you mean germplasm?
f) Explain the way of loss of biodiversity.

Q.2) Answer the following: (5 Marks X 2 = 10)

a) Describe marine ecosystem on biosphere.
b) Describe hydrological cycle in nature.

Q.3) Explain the following: (5 Marks X 2 = 10)

a) Elaborate on abiotic factors of grassland ecosystem.
b) Differentiate between various endangered categories of plant species.

Q.4) Write short notes on the following: (5 Marks X 2 = 10)

a) Significance of phosphate solubilization in biosphere.
b) Bioaccumulation of heavy metals.

SECTION - 02

Q.5) Answer the following: (ANY FIVE) (2 Marks X 5 = 10)

a) What is a biodiversity hotspot?
b) Write the methods of conservation of endangered plant species.
c) How does noise pollution affect health?
d) Enlist types of reactors used in wastewater treatment.
e) What are the sources of air pollution?
f) Enlist the impacts of air pollutants on plants.

Q.6) Answer the following: (5 Marks X 2 = 10)

a) Mention various types of natural resources and their current status.
b) Mention the types and sources of ground water pollution.

Q.7) Explain the following: (5 Marks X 2 = 10)

a) Describe the bioconversion of heavy metals.
b) What are characteristics of hazardous waste?

Q.8) Write short notes on the following: (5 Marks X 2 = 10)

a) Suggested methods of biomedical waste disposal.
b) Microbes in wastewater treatment.

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