

**S. Y. B. Sc. (Biotechnology) SEM – IV (CBCS - 2015 COURSE) :  
WINTER - 2018**

**Subject: Environmental Biotechnology**

Day: Tuesday  
Date: 30/10/2018

**W-2018-1178**

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 SEPARATE answer books.
- 5) Draw a labeled diagram WHEREVER necessary.

**SECTION - 01**

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

- a) Enlist abiotic factors of grassland ecosystem.
- b) Enlist the characteristics of biosphere.
- c) Write the origin of organic particulate matter in the atmosphere.
- d) Name the trace constituents of the atmosphere.
- e) Explain the ecosystem diversity.
- f) Enlist the endangered species of plants.

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

- a) Discuss the sources of water and its characteristics.
- b) Enlist biogeochemical cycles? Explain any one of the cycle.

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

- a) Explain the consequences of green house effect on living organisms.
- b) Explain the ex-situ conservation of plant species.

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

- a) Problem of climate change.
- b) Explain the Red data book.

**SECTION - 02**

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

- a) Enlist any two disadvantages of exploiting natural resources.
- b) What is the convention on biological diversity?
- c) Enlist the monitoring techniques of air pollution.
- d) Write the sources of water pollution.
- e) What do you mean of biomass?
- f) Enlist indoor air pollutants.

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

- a) Explain the causes of loss of biodiversity.
- b) Define bioremediation. Write in detail on oil spill removal.

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

- a) Discuss the role of legislation in environment protection.
- b) Define acid rain. Write the causes and effects of acid rain.

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

- a) Define the term environmental pollution and its effects on human health.
- b) Significance of composting.

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