

S. Y. B. SC. (BIOTECHNOLOGY) SEM – III (2010 COURSE) :
WINTER - 2017

SUBJECT: ENVIRONMENTAL BIOTECHNOLOGY

Day: Wednesday
Date: 01/11/2017

W-2017-0951

Time: 10.00 AM TO 01.00 PM
Max Marks: 80

N.B:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION-I

- Q.1 A)** Answer any **ONE** of the following: **(06)**
- i) What are the major threats to biodiversity? Discuss the In-situ and Ex-situ conservation efforts.
 - ii) Discuss various problems associated with climate change.
- B)** Answer any **TWO** of the following: **(10)**
- i) What is meant by biogeochemical cycle? Explain any one of it.
 - ii) Mention the significance of biotic factors in any ecosystem.
 - iii) Give types of natural resources and their current status.
- Q.2** Attempt any **FOUR** of the following: **(16)**
- a) Enlist various methods of wildlife management.
 - b) What is sustainable development? Discuss its significance.
 - c) Explain the methods of toxic site reclamation.
 - d) Discuss the role of human activities in water cycle.
 - e) Mention the composition of lithosphere.
 - f) Give environmental impact of ozone layer depletion.

SECTION-II

- Q.3 A)** Answer any **ONE** of the following: **(06)**
- i) What are different sources of water pollution?
 - ii) Define air pollution? Discuss its sources and effect on human health.
- B)** Answer any **TWO** of the following: **(10)**
- i) Give sources of soil pollution and its effects.
 - ii) Discuss some preventive measures to control eutrophication.
 - iii) What are hazardous waste? Discuss their impact on human health.
- Q.4** Attempt any **FOUR** of the following: **(16)**
- a) Give effects of industrial waste water on aquatic ecosystems.
 - b) Write the sources of radiation.
 - c) State effects of noise pollution on men.
 - d) What are the methods suggested for biomedical waste disposal.
 - e) Give significance of biosensor in detection of pollution.
 - f) Write an account on marine pollution in India.
- Q.5** Write short notes on any **FOUR** of the following: **(16)**
- a) Give the significance of COD
 - b) Biomass
 - c) Prevention of air pollution
 - d) Disposal of radioactive wastes
 - e) Agricultural wastes
 - f) Soil erosion

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