

SUBJECT: ENVIRONMENTAL BIOTECHNOLOGY

Day: Monday
Date: 22/10/2018

W-2018-1190

Time: 02.00 PM TO 05.00 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) Discuss the importance of biotechnological approach towards environmental pollution.
 - ii) What is wildlife? Discuss the importance of conservations of wildlife
- B) Answer any **TWO** of the following: **(10)**
- i) Discuss the role of various gases responsible for global warming and ozone layer depletion.
 - ii) Explain ecological importance of biodiversity.
 - iii) What are natural resources? Explain need of their conservation.
- Q.2** Attempt any **FOUR** of the following: **(16)**
- a) Describe hydrological cycle in nature.
 - b) Explain the structure of atmosphere.
 - c) Discuss the origin of earth.
 - d) Give the composition of lithosphere.
 - e) Impact of herbicides and pesticides.
 - f) Enlist the characteristics of biosphere.

SECTION-II

- Q.3** A) Answer any **ONE** of the following: **(06)**
- i) What are the sources of water pollution? Mention the effects of water pollution on human health.
 - ii) Give methods of ambient air pollution monitoring.
- B) Answer any **TWO** of the following: **(10)**
- i) What is the environmental impact of mining?
 - ii) Give the sources of soil pollution and its effects.
 - iii) Explain activated sludge process for wastewater treatment.
- Q.4** Attempt any **FOUR** of the following: **(16)**
- a) Discuss effect of radiations of human health.
 - b) State effects of noise pollution on men.
 - c) Discuss indicators of water pollution.
 - d) State advantages of composting of solid wastes.
 - e) Name the sources and effects of oil pollution.
 - f) Processes involved in soil erosion.
- Q.5** Write short notes on any **FOUR** of the following: **(16)**
- a) Biomedical wastes
 - b) BOD
 - c) Effects of air pollution on human health
 - d) Agricultural wastes
 - e) Marine pollution
 - f) Anaerobic lagoon