

**M. SC. (MEDICAL BIOTECHNOLOGY) SEM-IV (CHOICE
BASED CREDIT SYSTEM) : SUMMER - 2018
SUBJECT : BIOMEDICAL WASTE AND ENVIRONMENT**

Day : **Monday**
Date : **09/04/2018**

S-2018-1174

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

N. B. :

- 1) **Q. No.1 and Q.No.5 are COMPULSORY.** Answer Any **TWO** from questions No. **2, 3 and 4** and from **6, 7 and 8**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in the **SEPARATE** answer book.

SECTION – I

- Q.1** Answer **any FIVE** of the following questions in brief **(10)**
- a) Briefly describe different types of biomedical pollutants.
 - b) State the classification of pollution.
 - c) Explain heat as stress.
 - d) State the effect of pollutants on human health.
 - e) What are noso-comial infections?
 - f) What is importance of segregation in BMW management?
- Q.2** Answer the following questions : **(10)**
- a) What is noise pollution and its effects on Human health?
 - b) What is radioactive waste? Describe its management
- Q.3** Explain the following : **(10)**
- a) Psychrophilic microbes
 - b) On site pre-treatment of waste.
- Q.4** Write short notes on **any TWO** of the following : **(10)**
- a) Biomethanation
 - b) Incineration
 - c) Denitrification

SECTION - II

- Q.5** Answer the following : **(10)**
- a) Discuss the concept of reuse with reference to biomedical waste.
 - b) Discuss the impact of infectious waste on human health.
- Q.6** Answer **any TWO** of the following : **(10)**
- a) Describe the store and off-site transportation.
 - b) Discuss chlorination of wastewater.
 - c) Describe Legislation for BMW management.
- Q.7** Write short notes on the following : **(10)**
- a) Sharp disposal bin
 - b) Physicochemical treatment of liquid waste.
- Q.8** Answer the following : **(10)**
- a) Discuss the common treatment facilities off-site.
 - b) What are modern methods for management of biomedical waste?

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