

**M. SC. (MEDICAL BIOTECHNOLOGY) SEM-IV (CHOICE
BASED CREDIT SYSTEM) : WINTER - 2017
SUBJECT: BIOMEDICAL WASTE & ENVIRONMENT**

Day: **Wednesday**
Date: **01/11/2017**

Time: **02.00 PM TO 05.00 PM**
Max. Marks: **60**

W-2017-1059

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 **SEPARATE** answer book.

SECTION - I

- Q.1** Answer any **FIVE** of the following questions in brief. **(10)**
- a) Briefly describe the effects of Environmental Pollutants.
 - b) State the classification of Environment.
 - c) Explain Heat as Stress.
 - d) What are the sources of Radioactive waste?
 - e) Briefly describe direct and indirect hazards.
 - f) Characteristics of biomedical solid waste,
- Q.2** Answer the following questions: **(10)**
- a) Write the current approaches to management of radioactive waste.
 - b) Describe different pollutants present in liquid biomedical waste.
- Q.3** Explain the following: **(10)**
- a) Wet thermal technology
 - b) Store and off-site transportation
- Q.4** Write short notes on any **TWO** of the following: **(10)**
- a) Control of radioactive wastes
 - b) Incineration
 - c) Sharp disposal pit

SECTION - II

- Q.5** Answer the following: **(10)**
- a) Write the basic steps involved in waste management.
 - b) What is biomedical waste and its impact on human health?
- Q.6** Answer any **TWO** of the following: **(10)**
- a) Write the legislation and policies on health care waste management.
 - b) Discuss treatment and disposal technologies for health care waste.
 - c) Write common treatment facilities in – site and off – site.
- Q.7** Write short notes on the following: **(10)**
- a) Secured land fill
 - b) Deep burial pit
- Q.8** Answer the following: **(10)**
- a) What are modern methods for handling biomedical waste?
 - b) Explain physical and chemical methods of waste treatment.