M. Sc. (Medical Biotechnology) Sem-IV (Choice Based Credit System): SUMMER - 2019

SUBJECT: BIOMEDICAL WASTE AND ENVIRONMENT

10.00 AM TO 01.00 PM Day: Time: Sunday Date: Max. Marks: 60 21/04/2019 S-2019-1512 N.B.: Q.NO.1 and Q.NO.5 are COMPULSORY. Answer Any TWO from questions 1) NO.2, 3 and 4 and from 6, 7 and 8. Figures to the right indicate FULL marks. 2) Answers to both the sections should be written in the SAME 3) answer book. **SECTION-I** Q.1 Attempt ANY FIVE of the following questions in brief [10] Write in brief classification of Environment. a) What are biodegradable solids in BMW? b) Justify the cold as stress. Discuss infectious pollutants in medical waste. Explain any four water borne diseases. What are the sources of Environmental pollution? **Q.2** Answer the following questions: [10]Describe the sources of Noise pollution and its effects on Human health. a) Write the classification of Biomedical waste. b) **Q.3** Explain the following: [10] Environmental problems in India. Metabolic responses of microorganisms to hot water discharge. **Q.4** Write short notes on **ANY TWO** of the following: [10] Control of radioactive waste a) b) Incineration Methanogenesis c) **SECTION-II** 0.5 Answer the following: [10] Discuss the impact of infections waste on human health. a) b) Describe the legislation and policies on health care waste management. [10] Answer **ANY TWO** of the following: **Q.6** What are modern methods for handling biomedical waste? a) Describe the disposal of hazardous waste. b) Discuss the 3R principle with reference to biomedical waste Write short notes on the following: [10] **Q.7** Deep-burial pit a) Secured land fill b) **Q.8** Answer the following: [10]a) Discuss about common treatment facilities in- site and off -site. b) Discuss segregation approach for management of BMW.

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