DMM-1574
M. Sc. (Sem. IV) (Self Finance) Examination
March / April - 2016
Environmental Chemistry : Paper - III
(Waste, Waste Management, Environmental Biology - II)

Time : 3 Hours] [Total Marks : 70

Instruction :

(1) Fill up strictly the details of signs on your answer book.
Name of the Examination : M. Sc. (Sem. IV) (Self Finance)
Name of the Subject : Environmental Chemistry : Paper - III
Subject Code No. : 1 5 7 4 Section No. (1,2,.....) : Nil

(2) Attempt all four questions.
(3) Figures to the right indicate full marks.

1 Answer any three of following : 18
(a) Describe the method of treatment and disposal of radioactive waste in detail.
(b) Explain any one method use for detection of nuclear radiations.
(c) Describe- Safety standards related to radioactive waste.
(d) Explain in detail- Health effects of ionizing radiation.

2 Answer any three of following : 18
(a) Describe - Soil contaminants in detail.
(b) Give the importance of exchangeable cation analysis of soil.
(c) Give informative note on - Ecological and Health effects of soil contaminants in detail.
(d) Describe the importance of pH and Phosphorous analysis of soil.
3  Answer any **three** of following:

(a) Describe - Toxic effects of Lead and chromium.

(b) Give informative note about - Biochemical effects of CO, SOx & NOx.

(c) What are microbes? Give details about microbes as antimicrobial agents.

(d) Give the list of toxic chemicals in environment with its impact on human and animals.

4  Answer any **four** of following:

(a) Give short note on- Characteristics of nuclear waste.

(b) Explain- Toxic effects of Cadmium and Mercury.

(c) Give informative note on- Low level and high level radioactive waste.

(d) Describe various methods use for the analysis of micronutrients in soil.

(e) Give detail information about extremophilic microorganisms.

(f) Explain - Microbial metabolism in detail.