

T.Y.B.SC. SEM – VI (2014 Course) : SUMMER - 2019
SUBJECT: CHEMISTRY OPTIONAL : a) ENVIRONMENT CHEMISTRY – VI

Day: Saturday
Date: 27/04/2019

S-2019-1049

Time: 03.00 PM To 05.00 PM
Max Marks. 40

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
 - 4) Both the sections should be written in **SAME** answer book.
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SECTION - I

Q.1 Attempt any **TWO** of the following: **(10)**

- a) Draw a neat diagram showing various layers of the soil. Explain each layer in detail.
- b) What do you understand by persistence of pesticides? Give its impact on crop yield and human health.
- c) Discuss the process of Reclamation and Reuse in terms of solid waste management.

Q.2 Attempt any **TWO** of the following: **(10)**

- a) Explain "Non-conventional energy sources". Describe with respect to solar energy.
- b) Write a short note on "Minamata disease".
- c) Explain acid-base and ion-exchange reactions in soil.

SECTION - II

Q.3 Attempt any **TWO** of the following: **(10)**

- a) Describe the successes and problems of Green Revolution.
- b) Write a note on: Sanitary Landfill.
- c) What are the role of Vitamins and minerals, Fats and carbohydrates and Proteins in human diet?

Q.4 Attempt any **TWO** of the following: **(10)**

- a) 'Coal is a major fuel and energy resources of India'. Explain
- b) Give an account of sources of industrial water pollution.
- c) Explain the process of Pyrolysis. How it is superior to incineration.

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