

T.Y.B.SC. SEM – V (2014 COURSE) : SUMMER - 2018
SUBJECT : OPTIONAL – (A) ENVIRONMENTAL CHEMISTRY-V

Day : **Monday**
Date : **23/04/2018**

Time : **03.00 PM TO 05.00 PM**
Max. Marks : 40.

S-2018-0760

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate full marks.
- 3) Draw neat labeled diagrams **WHEREVER** necessary.
- 4) Both the sections should be written in **SEPARATE** answer books.

SECTION-I

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

- a) Draw a neat diagram showing various layers (spheres) in the atmosphere. Explain each layer in detail.
- b) What do you understand by the earth radiation balance? Explain the role played by 'Albedo.'
- c) "Green House effect and Green House Gases are main culprits for Global warming." Explain.

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

- a) Explain the causes for 'Acid Rain.' What are the environmental effects of the Acid Rain?
- b) Give a detailed account of worst ever Indian disaster called Bhopal disaster.
- c) Give the details of air pollution impacts due to Nitrogen oxides.

SECTION-II

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

- a) Outline the process called as "Eutrophication." Which are the factors responsible for accelerated eutrophication?
- b) Give the meaning of pH and pE with a special reference to sea-water equilibrium.
- c) Draw a neat diagram showing giant hydrological cycle happening on the planet earth. Explain the pathways of water in the cycle.

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

- a) Write a short note on "Chemical evolution", which occurred during the evolution of our atmosphere.
- b) Discuss the complexation process in natural water and polluted water.
- c) Give the details of one important step in atmospheric evolution which is known as Biological evolution.

* * *