

( 4 )

Total Pages—4

M.Sc.—Chem-IIIS (AE-508)

6. (a) Write about the classification of Atmospheric Air pollution. Explain the causes and effects of acid rains.

Or

- (b) Describe the structure and composition of Atmosphere.

2019

(January)

Time : 3 hours

Full Marks : 80

Answer from both the Sections as per direction

*The figures in the right-hand margin indicate marks*

*Candidates are required to answer in their own words as far as practicable*

**(CHEMISTRY AND ENVIRONMENT)**

**SECTION—A**

1. Answer any *four* questions of the following : 4 × 4
- (a) Write about the factors influencing environment.
  - (b) Write about the classification of resources for water.
  - (c) Explain the methods to control deforestation.

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- (d) Explain the classification of Environmental pollutants.
- (e) Write about thermal pollution.
- (f) Suggest methods for controlling Air pollution.

*Or*

2. Answer *all* questions : 2 × 8

- (a) Define Environment.
- (b) Write briefly on Hydrological cycle.
- (c) Write about land resources.
- (d) Explain non renewable resources.
- (e) What are the effects of environmental pollution ?
- (f) What is deforestation ?
- (g) What is greenhouse effect ?
- (h) What are hazardous Air pollutants ?

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### SECTION—B

Answer **all** questions : 16 × 4

3. (a) Describe Nitrogen cycle in detail.

*Or*

- (b) Describe Biogeochemical cycles in detail.

4. (a) Explain the formation of soil and soil erosion.

*Or*

- (b) Make a comparative study between conventioal and non-conventional energy resources.

5. (a) Describe sewage treatment process in detail.

*Or*

- (b) What are the sources for radiation pollution ? Explain the effects and control methods for radiation pollution.