

M - 2020

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CHEM-033

## M.Sc. (Final) Examination, 2020

### CHEMISTRY

Paper - III (CHE-033)

#### Environment Chemistry

Time : 2 ½ Hours

Maximum Marks : 50

Note: (i) No supplementary answer book will be given to any candidate. Hence the answers should enter the answer booklet in the main answer-book only.

(ii) All the parts of one question should be attempted at one place in the answer book. One complete question should not be answered at different places in the answer book.

(iii) Answer all the questions in all

1. Explain how the oxidation potential of the earth's surface can estimate the global mean temperature?
2. Explain the photochemical reaction of  $\text{SO}_2$  and nitrogen oxides.
3. What is acid rain? Discuss formation of nitric acids in atmosphere and effect of acid rain on vegetation.
4. How does green house effect reproduce? Explain major green house gases and their sources.
5. Explain the method of determination of dissolved oxygen content.
6. Discuss the sewage and industrial waste water treatment method.
7. Write a note on Minamata disease.

8. Discuss the biochemical effect of DDT pesticides and its damaging effect.
9. Discuss the composition of soil. How does metallic pollutant and fertilizers affect the soil?
10. Write short notes on :
  - (a) Chernobyl nuclear disaster.
  - (b) Seveso (Italy)

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