

Reg. No.

--	--	--	--	--	--	--	--	--	--



ESH 401

**First Semester M.Sc. Degree Theory Examination,
December 2018/ January 2019
(CBCS)
ENVIRONMENTAL SCIENCE
Environmental Chemistry**

Time : 3 Hours

Max. Marks : 70

Instruction : Answer *all* the Sections and draw **neat** sketches **wherever** necessary.

PART – A

I. Write short notes on **any four** of the following (**not** exceeding **2** pages **each**).
(4×4=16)

- 1) Stoichiometry
- 2) Chemical equilibria
- 3) MIC
- 4) Corrosion
- 5) Metalloids
- 6) Reduction.

PART – B

II. Write explanatory notes on **any five** of the following (**not** exceeding **3** pages **each**). :
(5×6=30)

- 7) Gibb's free energy
- 8) Formation of organic particulate matters
- 9) Photochemical smog
- 10) Carcinogens in air
- 11) Sources of water pollutants
- 12) Ozone chemistry
- 13) The carbonate system.

PART – C

III. Answer **any two** of the following (**not** exceeding **8** pages **each**). (2×12=24)

- 14) Explain the chemistry of oil based paints.
 - 15) Discuss the types of reactions in marine environment.
 - 16) Describe the chemical pollution in environment.
-