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Department of Chemistry
School of Chemical & Life Science
M.Sc. Chemistry/Semester III
Supplementary Examinations-April, 2024
Paper Code: MCHCOE-307
Paper Title: Environmental Chemistry

Roll No.....

Time; 2.5 hrs

Max.Marks 60

Attempt All questions. All parts of a question must be attempted in continuation. Start answer of a fresh question on a new page. Cite examples and draw diagrams wherever necessary.

Section A

Attempt all question

(10x1.5=15Marks)

Q.No		BTL	CLO	PLO
A.1	Describe the composition of the atmosphere.	2	1	2
A.2	Describe the role of gravity in the formation of atmosphere.	3	2	1
A.3	What is the role of the Ozone layer?	3	1	
A.4	What is the role of green house gases in global warming?	3	5	2
A.5	Why are water quality standards important?			
A.6	What are the similarities and differences between USA and Indian air quality standard?	5	6	2
A.7	How human activity can be made to be environmentally friendly?	4	3	3
A.8	What are the types of pollutants that we use in our daily life and how do we minimise their use?	5	5	1
A.9	What is role of UV spectrophotometry to study water pollutant?	1	6	1
A.10	What is Smog?	6	5	3

Section B

Long type Questions (Attempt *any two* out of four)

(2x10=20Marks)

Q.No.		BTL	CLO	PLO
B.1	Explain the stages of Nitrogen Cycle with examples and human effects on oxygen cycle.	3	1	2
B.2	Explain the different process of waste-disposal management in India.	5	5	3
B.3	What are the effects of water pollutants on non-living things and living things?	1	2	2
B.4	What are remedies for environmental problems?	2	3	2

P.T.O

Section C

Attempt *all* questions. Each question has an internal choice
Q.No.

(5x5=25 Marks)
BTL CLO PLO

C.1	Explain air pollutants treatment process. OR Explain Water cycle.	1 5	5 4	3 2
C.2	Explain Permeation and Ultrafiltration. OR Explain two methods of water purification at home.	4 4	3 2	2 3
C.3	Explain the treatment process of waste from paper industries. OR Explain the treatment process of waste from Leather industries	5 2	6 2	2 1
C.4	Explain the National & International parameters of air quality. OR Explain the National & International parameters of Drinking Water.	1 5	2 6	1 2
C.5	Explain the analytical methods for monitoring Atmospheric pollutants. OR Explain the analytical methods for monitoring Soil pollutants.	6 6	6 6	2 2

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