RAMAKRISHNA MISSION VIDYAMANDIRA

(Residential Autonomous College affiliated to University of Calcutta)

B.A./B.Sc. SIXTH SEMESTER EXAMINATION, JUNE 2022 THIRD YEAR [BATCH 2019-22]

INDUSTRIAL CHEMISTRY (HONOURS)

Date : 13/06/2022

Time : 11 am – 1 pm Paper : XIII [CC13] Full Marks : 50

Answer <u>any five</u> of the following questions:		[5×10]
1.	Describe the heterogeneous reactions taking place in the stratosphere leading to ozone depletion over Antarctica. State major effects of ozone depletion on man and biodiversity.	[6+4]
2.	Enumerate the different steps of Solid Waste Management. How did the MIC escape with a tremendous velocity during the Bhopal Gas Tragedy?	[5+5]
3.	Give an account of the sources of high-level radwastes. Mention the strategies you would like to adopt for management and disposal of such wastes.	[5+5]
4.	"Nitrogen Cycle plays a pivotal role for increasing soil fertility" – justify. Explain the significance of Water Cycle for the sustainability of our Ecosystem.	[5+5]
5.	Briefly mention the abiotic factors that affect the dissolved oxygen concentration in water. What is 'Dead Zone'? Elaborate how biomagnification could a fatal disaster like 'Minamata' in Japan.	[6+1+3]
6.	Why did RBMK, the reactor plant in Chernobyl get damaged? Mention the human errors behind this man-made disaster.	[6+4]

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