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MCH-019

M. SC. (CHEMISTRY) /

M. SC. (ANALYTICAL CHEMISTRY)

(MSCCHEM/MSCANCHEM)

Term-End Examination

December, 2024

MCH-019 : GREEN CHEMISTRY

Time : 1 Hour

Maximum Marks : 25

Note : (i) Answer ***either*** question no. 1 or question no. 2.

(ii) Answer any ***five*** questions from question no. 3 to question no. 8.

Note : Answer any ***one*** of the following questions.

1. Discuss the principle of 'designing chemical products'. Also illustrate its importance giving suitable examples. 5

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P. T. O.

Or

2. What are CFCs ? Explain how they are responsible for the destruction of ozone layer. Discuss the harmful effects of depletion of ozone layer. 5

Note : Answer any *five* of the following questions.

3. (a) Describe the advantages of using catalysts in chemical reactions according to Green Chemistry. 2
- (b) Briefly explain the process of Analytical Chemistry. 2
4. Before using a particular compound for synthesizing a given molecule, what aspects about it should be explored in the available literature to know its safety to human beings and environment ? 4
5. Differentiate between smog and photochemical smog. Give their harmful effects. 4
6. Give the advantages of using DCOI over TBTO. 4

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7. Briefly explain the steps involved in the production of paper. What is chlorine-free paper ? 4
8. What are scales chemically ? What are the disadvantages of scale formation ? Give the full form of the scale inhibitor PAC. 4

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