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**GA—04—2023**

**FACULTY OF SCIENCE**

**B.Sc. (Third Year) (Sixth Semester) EXAMINATION**

**APRIL/MAY, 2023**

**(Old CBCS Pattern)**

**CHEMISTRY**

**Paper-XIV**

**(Organic and Inorganic Chemistry)**

**(Tuesday, 18-4-2023)**

**Time : 10.00 a.m. to 12.00 noon**

*Time—Two Hours*

*Maximum Marks—40*

*N.B. :—* (i) Attempt *all* questions.

(ii) Figures to the right indicate full marks.

1. Answer any *three* of the following : 3×5=15
- (a) Give the classification of polymer on the basis of properties and uses.
- (b) Explain heteroatomic polymer with an example.
- (c) Give preparation, properties and uses of Fluorocarbons.
- (d) Define nanoparticles. What are grapheme nanoparticles ?
- (e) Write applications of nanoparticles.
2. Solve any *three* of the following : 3×5=15
- (a) Give classification of fibres.
- (b) Write a bi-products of alcohol industry.

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- (c) Write the process of scouring used in textile industry.
  - (d) Describe refining process of raw sugar.
  - (e) Give the synthesis and uses of indol-3-acetic acid and ethophan.
3. Solve any *two* of the following : 2×5=10
- (a) What are biocatalytic reactions ?
  - (b) Give the advantages of nitrogenous fertilizers.
  - (c) Write a note on atom economy reaction.

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