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PA—02—2024

FACULTY OF SCIENCE

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

MARCH/APRIL, 2024

(CBCS/New Pattern)

CHEMISTRY

Paper XIV

(Organic and Inorganic Chemistry)

(Tuesday, 02-04-2024)

Time : 10.00 a.m. to 12.00 noon

Time—2 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.
- (b) Explain homoatomic and heteroatomic polymer with example.
- (c) Give preparation and properties of fluorocarbons.
- (d) Define nanoparticles and write different types of it.
- (e) Write applications of nanoparticles.

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2. Solve any *three* of the following :

3×5=15

- (a) Give classification of fibres.
- (b) Write a bi-products of alcohol industry.
- (c) Write the process of scouring used in textile industry.
- (d) Describe refining 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) How will you synthesize phenol and benzoquinone by using zeolites ?

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