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NA—02—2023

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2023

(CBCS/New Pattern)

CHEMISTRY

Paper-XIV

(Organic and Inorganic Chemistry)

(Wedday, 29-11-2023)

Time : 10.00 a.m. to 12.00 noon

Time—2 Hours

Maximum Marks—40

N.B. :— (1) Attempt *all* questions.

(2) Figures to the right indicate full marks.

1. Answer any *three* of the following :

3×5=15

(a) Define the following terms :

(i) Monomer

(ii) Polymer

(iii) Co-polymer

(iv) Degree of polymerization

(v) Polymerisation.

(b) Give the classification of polymer on the basis of origin.

(c) Give preparation and properties of :

(i) Silicones

(ii) Fluorocarbons

(d) Write any *five* properties of nanoparticles.

(e) Explain with example metal nanoparticles.

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(2)

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2. Solve any *three* of the following :

3×5=15

- (a) Write a short note on manufacture of ethyl alcohol from molasses.
- (b) Give a brief account on white sugar.
- (c) Write the objectives of singeing process used in textile industry.
- (d) Describe direct dye and dispersed dye.
- (e) Give the synthesis and uses of Indole-3 acetic acid.

3. Solve any *two* of the following :

2×5=10

- (a) Write any *five* principles of green chemistry.
- (b) Give the synthesis and uses of Ethophan.
- (c) What are agrochemicals ?