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SA—02—2025

FACULTY OF SCIENCE

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

APRIL/MAY, 2025

(CBCS/New Pattern)

CHEMISTRY

Paper—XIV

(Organic + Inorganic Chemistry)

(Monday, 7-4-2025)

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) Define the following terms with example :

(i) Monomer

(ii) Polymer

(iii) Co-polymer

(iv) Polymerization

P.T.O.

- (b) Give the classification of polymer on the basis of uses.
- (c) Write the comparison between organic and inorganic polymers.
- (d) Give the properties of nano particles.
- (e) Explain with example metal nanoparticles
2. Solve any *three* of the following : 3×5=15
- (a) Write the manufacture of raw cane sugar
- (b) Give a brief account on byproducts of alcohol industry.
- (c) Write the objects of singeing process.
- (d) Describe reactive and dispersed dye.
- (e) Give the synthesis and uses of Ethophan.
3. Solve any *two* of the following : 2×5=10
- (a) State any *five* principles of green chemistry.
- (b) Give the synthesis and uses of agrochemical : Monochrotophos.
- (c) What are potassic fertilizers ?