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VA—02—2024

FACULTY OF SCIENCE

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

NOVEMBER/DECEMBER, 2024

(CBCS/New Pattern)

CHEMISTRY

Paper—XIV

(Organic and Inorganic Chemistry)

(Tuesday, 26-11-2024)

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) Give the difference between organic and inorganic polymer.

(c) Give preparation and properties of :

(i) Phosphonitrilic compounds

(ii) Fluorocarbons.

(d) Write a short note on nanoparticles.

(e) Write properties of nanoparticles.

P.T.O.

2. Solve any *three* of the following : 3×5=15

- (a) Give a brief account on manufacture of ethyl alcohol from molasses.
- (b) Write a short note on Rectified spirit and denatured spirit.
- (c) Write the process of dyeing used in textile industry.
- (d) Give the properties of starch.
- (e) Give the synthesis and uses of indole 3-acetic acid.

3. Solve any *two* of the following : 2×5=10

- (a) What are microwave assisted reactions ?
- (b) Give the advantages of complex fertilizers
- (c) What are synthetic adhesives ?