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GA—02—2023

FACULTY OF SCIENCE

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

APRIL/MAY, 2023

(New/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 composition.

(b) Give the difference between organic and inorganic polymer.

(c) Give preparation and properties of :

(i) Phosphonitrilic compounds

(ii) Fluorocarbons.

(d) Define nanoparticles and write different types of it

(e) Write applications of nanoparticles.

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

(a) Give a brief account on manufacture of ethyl alcohol from molasses.

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- (b) Write a short note on rectified spirit and denatured spirit.
- (c) Write the process of dyeing used in textile industry.
- (d) Give the objectives of sizing.
- (e) Give the synthesis and uses of Monochrotophos.

3. Solve any *two* of the following :

2×5=10

- (a) What are microwave assisted reactions ?
- (b) Give the advantages of potassic fertilizers.
- (c) What are Pyrethroids ?

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