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SB—02—2022

FACULTY OF SCIENCE

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

MAY/JUNE, 2022

(CBCS/New Pattern)

CHEMISTRY

Paper-XIV

(Organic + Inorganic Chemistry)

(Thursday, 02-06-2022)

Time : 10.00 a.m. to 12.30 p.m.

Time— 2½ Hours

Maximum Marks—40

N.B. :— Attempt all questions

1. Solve any *three* of the following : 3×5=15
 - (i) What are the bi-products of alcohol industry ?
 - (ii) Give the classification of polymers on the basis of its composition.
 - (iii) Write the preparation and properties of fluorocarbons.
 - (iv) Define nanotechnology. Give the properties of nanoparticles.
 - (v) What are the applications of nanoparticles ?

2. Solve any *three* of the following : 3×5=15
 - (i) How will you manufacture ethyl alcohol from molasses ?
 - (ii) Give a brief account on rectified spirit and denatured spirit.
 - (iii) Write the classification of fibre.
 - (iv) Give the synthesis and uses of the following compounds.
 - (a) Ethophan
 - (b) Indol-3-acetic acid.
 - (v) Write a note on biocatalytic reactions.

P.T.O.

3. Solve any *two* of the following :

2×5=10

- (i) Define dye. Give brief account on reactive and dispersed dye.
- (ii) Write the advantages of phosphatic fertilizers.
- (iii) Give the twelve principles of green chemistry.
- (iv) How will you convert benzene to phenol & benzoquinone.