

Extra (06)

V.P. & R. P. T. P. SCIENCE COLLEGE
INDUSTRIAL CHEMISTRY

B. Sc. - Semester – V

COURSE NO: US05CICH02–UNIT PROCESSE IN ORGANIC MANUFACTURING

Date & Day: 3rd October 2019

TIME: 11:00 to 12:15

TOTAL MARKS – 25

Q.1 Answer the following MCQs

(05)

- Nitration of paraffinic hydrocarbon is via....
 - Electrophilic substitution reaction
 - Free radical reaction
 - Nucleophilic substitution reaction
 - Condensation reaction
- An introduction of SO₂Cl group into alkane is known as
 - Halosulfonation
 - Sulfonation
 - Sulfochlorination
 - All of these
- The usual form of oxidation with dichromate is in the presence of
 - Acetic acid
 - Hydrochloric acid
 - Sulfuric acid
 - All of these
- In BHC (Benzene Hexachloride) , Which isomer is Insectically active ?
 - Alpha-Isomer
 - Beta-Isomer
 - Delta-isomer
 - Gamma-Isomer
- $\text{CH}_3\text{COOC}_2\text{H}_5 + \text{C}_{15}\text{H}_{31}\text{COOH} \longrightarrow \text{C}_{15}\text{H}_{31}\text{COOC}_2\text{H}_5 + \text{CH}_3\text{COOH}$
 - Acidosis
 - Alcoholysis
 - Esterification
 - Hydrolysis



Q.2 Discuss the manufacturing process for Aniline by Bechamp Reduction.(05)

OR

Q.2 For industrial nitration compare the batch v/s continuous process.(05)

Q.3 Write a note on “Types of Oxidative reactions”. (05)

OR

Q.3 Discuss the commercial manufacturing of Benzene sulfonic acid by Barbet Process.(05)

Q.4 Write a note on Methods for Chlorination reaction.(05)

OR

Q.4 Discuss the “Hardening of vegetable oil”.(05)

Q.5 Giving flow diagram discuss the manufacturing of Ethyl acetate.(05)

OR

Q.5 Give mechanism of hydrolysis type BAC2 type.(05)