

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

B. Sc. (Semester - V) Examination

INDUSTRIAL CHEMISTRY

4th October 2017

COURSE NO: US05CICH02 (UNIT PROCESS IN ORGANIC MANUFACTURE)

TIME: 11.00 TO 12.30 PM.

TOTAL MARKS – 25

Q.1 Answer the following MCQs.

(03)

- Which of the following is a unit process ?
 - Distillation
 - Mixing
 - Alkylation
 - None of these.
- Introduction of RNHSO₂ONa are termed as.....
 - Sulfoxidation
 - Sulfochlorination
 - N-Sulfonate
 - Non of them.
- $\text{CH}_3\text{COOC}_2\text{H}_5 + \text{C}_{15}\text{H}_{31}\text{COOH} \longrightarrow \text{C}_{15}\text{H}_{31}\text{COOC}_2\text{H}_5 + \text{CH}_3\text{COOH}.$
 - Acidosis
 - Esterification
 - Alcoholysis
 - Hydrolysis



Q.2 Answer the following short questions (ANY TWO)

(04)

- Giving suitable example define term Ammonolysis.
- Define the terms Sulfonation and Sufochlorination.
- Give mechanism of hydrolysis type BAC2.

Q.3 With the help of a chart indicate various reduction products of nitrobenzene under different condition.

(06)

OR

Q.3 Write a manufacturing process for *p*-Nitro Acetanilide.

(06)

Q.4 Write note on "Types of Oxidative reactions".

(06)

OR

Q.4 Discuss the commercial manufacturing of Acetic acid.

(06)

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

(06)

OR

Q.5 Write notes on Esterification by Organic acids and Catalytic esterification.

(06)