

V.P & R.P.T.P SCIENCE COLLEGE
B.Sc. (Semester-VI)
INDUSTRIAL CHEMISTRY (Vocational)
06/03/2019 [Wednesday]
Subject code: US06CICV02
Internal Exam



Time: 10:00 am to 12:00 pm

Total marks: [50]

Q1. Select the right option from among the given in following question. [08]

- Reaction of paraldehyde with aqueous ammonia in the liquid phase gives _____
 - 3,5-dimethyl pyridine
 - 6-ethyl-2-methyl pyridine
 - 3-methylpyridine
 - 5-ethyl-2-methyl pyridine
- In Fischer-Tropsch synthesis, raw synthesis gas is purified by _____
 - By air
 - Soda washing
 - Water washing
 - None of these
- The catalytic hydrogenation of dextrose yields _____
 - Acetone
 - Glucose
 - Sorbitol
 - Ethanol
- When alcohols or phenols are reacted with phosphorous pentoxide the mixture of _____ is formed
 - Di and tri esters
 - Diesters
 - Mono and di esters
 - None of these
- The action of bleaching powder on acetone yields _____
 - Chloroform
 - Carbon tetrachloride
 - Methyl chloride
 - None of these
- In manufacture of N-alkylated ethanolamines, reaction temperature varies from _____ to _____ °C
 - 50 to 170 °C
 - 80 to 200 °C
 - 30 to 150 °C
 - 20 to 150 °C
- An oxidation of dimethyl sulfide produces _____
 - DMF
 - THF
 - Dioxane
 - DMSO
- Which of the following is not miscible with aliphatic/cyclicaliphatic hydrocarbons?
 - DMF
 - N-butyl ether
 - 2-pyrrolidone
 - THF

Q.2 Answer the following in short. (Attempt five, each two marks) [10]

- Draw the flow sheet of Vinyl chloride from acetylene and HCl
- Write the uses of Acetone
- Draw the flow sheet Manufacture of formaldehyde from methanol
- Write the raw materials of Manufacture of glycerine from propylene via acrolein
- Write the reaction Manufacture of carbon tetrachloride.
- Write the uses of Methyl chloride
- Write the physical properties Di-oxane
- Write the physical properties of DMSO

Q.3 Write a note on Phenol by cumene process and give application of phenol [08]

OR

Q.3 Described the process of Acrylates [08]

Q.4 a. With the help of flow diagram explain manufacture of Sorbitol [04]

b. Write note on Melamine [04]

OR

- Q.4 a. Write the manufacturing process of Formic acid [04]
b. Write the note on Triphenyl phosphine [04]
- Q.5 a. Explain manufacture of Carbon tetrachloride [04]
b. Write the note on Tri ethanol amine [04]
- Q.5 a. Explain manufacture of Methyl chloride [04]
b. Write the note on dialkyl amino ethanol [04]
- Q.6 Explain manufacture of methyl amine ant it application [08]
- Q.6 Explain manufacture of DMSO and its properties and uses [08]

