V. P. & R. P. T. P. Science College
B.Sc. (sixth semester)
Tuesday 13th March 2018
Subject code: US06CICV02 (Heavy and Fine Organic Chemistry)
Industrial Chemistry

Time: 11:00 am to 12:30 pm **Total Marks: 30**

Q-1 Select right option from given in the following questions. Marks-03

I. Vapour phase reaction between acetylene and acetic acid in the presence of a _____ catalyst yields vinyl acetate.
(a) Mercuric chloride (b) Zinc acetate
(c) Charcoal (d) Raney-nickel

II. The catalytic hydrogenation of dextrose yields _____
(a) Acetone (b) Glucose
(c)Sorbitol (d) Ethanol

II. In manufacture of methyl chloride, reaction gases pass through a water scrubber to remove _____
(a) H_2S (b) CO
(c)HCl (d) NO_2

Q-2 Answer any two of the following: Marks-04

i. Write uses of Vinyl acetate
ii. Drow the flow diagram of manufacturing formaldehyde from methanol
iii. Write uses of Chloroform

Q-3 Write a manufacturing process of Phenol by cumene process Marks-06

OR

Q-3 Vinyl chloride from acetylene and hydrogen chloride Marks-06

Q-4 Write a note on triphenyl phosphine Marks-06

OR

Q-4 write a manufacturing process of Formaldehyde Marks-06

Q-5 write a manufacturing process of Carbon tetrachloride with flow diagram Marks-06

OR

Q-5 Write a note on dialkylaminoethanol (DEA) Marks-06