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SEAT No. _____

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SARDAR PATEL UNIVERSITY

M. Sc. Semester - II Examination

Tuesday, 10th April 2018

INDUSTRIAL CHEMISTRY

Subject: Unit processes

Date: 10/04/2018

Course No. : PS02CICH23

Time: 10:00 a.m. to 01:00 p.m.

Marks: 70

- Q. 1 Multiple choice questions (Attempt all) [08]**
- I** The difference in activation energy between various methods of chlorination depends on the _____ step.
- (a) Chain initiation (b) Chain termination
(c) Chain propagation (d) None of these
- II** Halogenations may carried out by _____
- (a) Addition (b) Substitution
(c) Replacement (d) All of these
- III** DVS is ratio of _____.
- (a) $H_2SO_4:H_2O$ (b) $HNO_3:H_2O$
(c) $HCl:H_2O$ (d) $HCl:HNO_3$
- IV** Sulfation involves placement of _____ group on carbon.
- (a) $-SO_3H$ (b) $-SO_3$
(c) $-OSO_3H$ (d) $-SO_4$
- V** Still with dephlagmating column is used in _____ unit process.
- (a) Esterification (b) Oxidation
(c) Sulfonation (d) Sulfation
- VI** Vinyl acetate is manufacture at _____^oC
- (a) 130 (b) 170
(c) 190 (d) 210
- VII** Which catalyst is used in manufacture of phthalic anhydride?
- (a) V_2O_5 (b) BF_3
(c) $AlCl_3$ (d) HNO_3
- VIII** The vaporization salt scheme is suitable for the synthesis of alcohols containing _____ number of carbon atom.
- (a) 5 (b) 7
(c) 9 (d) 11

[P.T.O.]

(1)

