

**Q-1 Select right option from given in the following questions. (06)**

- I Girbotol process is used in crude oil for removal of \_\_\_\_\_  
(a) Water (b) Salts (c) Sulphur (d) Nitrogen
- II Demulsification process is used in crude oil for removal of \_\_\_\_\_  
(a) Water (b) Salts (c) Sulphur (d) Nitrogen
- III For the removal of unreacted ammonia \_\_\_\_\_ is used as scrubbing agent in the production of HCN.  
(a)  $H_2SO_4$  (b) Water (c) Sodium carbonate (d) All of these
- IV Nitromethane is obtained from methane by \_\_\_\_\_ process.  
(a) Nitration (b) Oxidation (c) Sulphonation (d) Reduction
- V The raw materials for mfg. vinyl acetate are \_\_\_\_\_.  
(a) Acetylene / Acetic acid (b) Benzene / ethylene  
(c) Acetylene / ethylene (d) Nitro benzene/ methane
- VI The raw materials for mfg. styrene are \_\_\_\_\_.  
(a) Acetylene / Acetic acid (b) Benzene / ethylene  
(c) Acetylene / ethylene (d) Nitro benzene/ methane

**Q-2 Answer any three of the following: (06)**

- I Write detail of carbide theory of petroleum formation.
- II Name method used of demulsification of crude oil.
- III Explain the production of methanol by high pressure & low pressure synthesis from Synthesis gas.
- IV Write a short note on properties & uses of HCN.
- V Give the outline of chemical obtained from  $C_2$  (ethane) fraction?
- VI Write properties and uses of acrylonitrile.

**Q-3 Explain Theory of petroleum formation. (06)**

OR

**Q-3 Explain Demulsification & desalting process of crude oil. (06)**

**Q-4 With the help of flow diagram explain the manufacturing of HCN. (06)**

OR

**Q-4 Give an outline how important petrochemicals are obtained from methane. (06)**

**Q-5 With the help of flow diagram explain manufacture and uses of styrene. (06)**

OR

**Q-5 Describe the process of manufacture of acrylonitrile (06)**

ALL THE BEST

