

**B. Sc. (Industrial Chemistry) Examination Oct - 2015**  
**Semester-V**  
**Paper- IC-502: Petroleum Industry**  
**Subject Code: 4301**

Time: **2.30** Hours

Total Marks: **70**

- Que.1 (A) Discuss about the production of formaldehyde. 10  
(B) Which chemicals are obtained from aromatic hydrocarbons? 04  
OR
- Que.1 (A) How crude petroleum is separated? Explain with neat sketch. 10  
(B) Write a note on C<sub>1</sub> Chemicals. 04
- Que.2 (A) Give industrial production of phthalic anhydride. 10  
(B) Give an application of phthalic anhydride. 04  
OR
- Que.2 (A) Describe industrial production of acrylonitrile. 10  
(B) Discuss historical development of petroleum industries. 04
- Que.3 (A) Discuss industrial production of isoprene with flow sheet diagram. 10  
(B) Give an application of isoprene. 04  
OR
- Que.3 (A) How industrially benzene is manufactured? 10  
(B) Why is oil refining necessary? 04
- Que.4 (A) Give industrial production of isopropyl alcohol. 10  
(B) Which chemicals are obtained from C<sub>2</sub> Cut? 04  
OR
- Que.4 (A) Discuss industrial production of toluene with flow sheet diagram. 10  
(B) Discuss the C<sub>4</sub> chemicals in detail. 04
- Que.5 (A) How industrially acetone is obtained? 10  
(B) Give an industrial application of maleic acid. 04  
OR
- Que.5 (A) How butadiene is manufactured? 10  
(B) Give industrial application of vinyl chloride. 04