

Seat No. \_\_\_\_\_

**T.Y. B.Sc. (Industrial Chemistry) Examination**  
**April - 2016**  
**Paper- IC-302: Petroleum and Polymer Industry**  
**Paper Code: 8974**

Time: 2.00 Hours

Maximum Marks: 75

- Que.1 (A) Describe the separation technique of crude petroleum. [10]  
(B) Write a note on aromatic hydrocarbon obtained from petroleum. [09]  
OR
- Que.1 (A) Write a note on C<sub>1</sub> chemicals. [10]  
(B) Write a note on C<sub>2</sub> chemicals. [09]
- Que.2 (A) Give an industrial production & application of methanol in detail. [10]  
(B) Write a note on ethylene manufacturing. [09]  
OR
- Que.2 (A) Draw a flow sheet diagram of perchloroethylene manufacturing with process and application. [10]  
(B) Discuss industrial production of vinyl chloride. [09]
- Que.3 (A) Give industrial production of isopropanol with flow sheet diagram. [10]  
(B) How industrially acetone is obtained? [09]  
OR
- Que.3 (A) Discuss synthesis, chemical properties and application of phenol formaldehyde. [10]  
(B) Discuss synthesis, chemical properties and application of HDPE. [09]
- Que.4 (A) Discuss synthesis, chemical properties and application of urea formaldehyde. [10]  
(B) Give industrial manufacturing and application of toluene. [08]  
OR
- Que.4 (A) What do you mean by vulcanization? Explain it with example. [10]  
(B) Write a short note on SBR. [08]