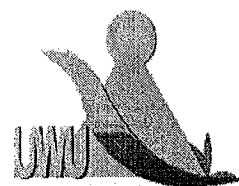


Uva Wellassa University, Sri Lanka
End Semester Examination – September 2011
SCT 432-1 Industrial Organic Chemistry



Time: One (01) hour

Total three (03) questions

Answer all questions

1.
 - a. Define the term "Liquid Crystal".
 - b. Describe the molecular arrangement of Smectic phase of liquid crystals.
 - c. Explain how the mesophases of thermotropic liquid crystals occur.
 - d. List two industrial applications of liquid crystals

(25 marks)

2.
 - a. Using ethene as the monomer molecule, illustrate the three steps initiation, propagation and termination of chain growth polymerization.
 - b. Give the structure of the monomer and the repeat unit of natural rubber
 - c. Name two synthetic rubber materials

(25 marks)

3. Write short accounts on any 2 of the following topics
 - b. Paints
 - d. Petroleum Refining
 - e. Pesticides

(50 marks)