

**Uva Wellassa University of Sri Lanka**  
**Faculty of Science and Technology**  
**Science and Technology Degree Program**  
**Third Year First Semester Examination - July/August 2016**  
**SCT 432-1 Industrial Organic Chemistry**



Number of questions: **Four (04)**

Answer only **two (02)** questions

Duration: **One (01)** hour

Total Mark allocated: **100** mark

1. Write short notes on two of the following topics
  - a. Stages in drug development process
  - b. Principles of drug actions
  - c. Co-polymers
  - d. Vulcanization process of rubber (50 mark)
  
2.
  - a. Explain the ways of pesticides degradation processes in the environment. (25 mark)
  - b. List chemical classes of pesticides? Explain for only three classes by stating structure and functional groups, mode of action. (25 mark)
  
3.
  - a. Define chromophores and auxochromes? Explain how these involve in giving colour to a molecule. (25 mark)
  - b. What are classes of dyes used in textile industry? Explain two classes by giving examples. (25 mark)
  
4.
  - a. What are the two ways of polymerizations? Explain each by giving examples. (25 mark)
  - b. Explain the polymerization process to form **Neoprene** polymer, mention the stereochemistry and the specific conditions that are used during the polymerization process. (25 mark)

