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Eastern University

EASTERN UNIVERSITY, SRI LANKA  
SECOND EXAMINATION IN SCIENCE (FIRST SEMESTER) – MAY 2001  
CH202 - ANALYTICAL CHEMISTRY

Time allowed: 01 Hour.

Answer all the parts

1. (a) (i) Draw the labeled diagram to show the basic components of flame photometer.  
(ii) Briefly describe the function(s) of each component.
- (b) Discuss briefly the major interferences that occurs in flame atomic emission spectroscopy.
  
2. (a) (i) Briefly explain, using examples, the following chromatographic methods:
  1. Normal phase chromatography
  2. Reverse phase chromatographyIndicate their important uses.
- (ii) What are the most commonly used absorbents for Thin Layer Chromatography (TLC)?  

What type of solvents can be used for TLC?
- (b) (i) Describe the important stages in the development of Thin Layer Chromatogram for an unknown compound.  
(ii) What are the advantages of TLC over other separation methods?
- (c) (i) What are the sources of determinate errors?. Indicate how you would minimize (or eliminate) them?