

**THE OPEN UNIVERSITY OF TANZANIA**

***FACULTY OF SCIENCE, TECHNOLOGY AND ENVIRONMENTAL STUDIES***

**OBL 101: BIOLOGICAL TECHNIQUES**

**ASSIGNMENT II-2008**

**INSTRUCTIONS:**

- Attempt **ALL** questions and wherever appropriate, include diagrams, sketches and indicate the reference books you consulted.
- Clearly write your **name, registration number** and **postal address**.
- Assignment two should reach the Faculty by **27<sup>th</sup>. March 2009**

1. (a). Give the name and describe the technique which utilizes electric charges of molecules to separate biological samples.  
  
(b). List four (4) biological materials that can be separated using the process named in (a) above.
  
2. Explain the following:
  - (i). A pH scale
  
  - (ii). A buffer