

**BOWEN UNIVERSITY, IWO  
DEPARTMENT OF BIOLOGICAL SCIENCES  
2009/2010 SECOND SEMESTER EXAMINATION**

**ZLY 307: HISTOLOGY**

Answer questions one and any two others.

Time: 2 hrs 20 mins

1. a. In a tabular form describe briefly the structure and function of ten (10) cell organelles.  
b. Draw the phospholipids structure of the cell membrane.  

(30 Marks)
  
2. (a) State the various blood cell types, site of production and basic function.  
(b) What histological techniques are used to study blood and bone marrow?  

(20 Marks)
  
3. Write short notes on the following:
  - (i) Connective tissues
  - (ii) Adipose tissues
  - (iii) Fibres of connective tissues
  - (iii) Defence cells of supporting tissues

(20 Marks)
  
4. (a) Give a basic classification of epithelial tissues.  
(b) Make a well – labelled diagrams of the simple cuboidal and simple columnar epithelia.  
(c) State the means of secretion of exocrine glands.  

(20 Marks)
  
5. (a) State five differences between LM and EM.  
(b) Describe the process of preparing histological sections.  

(20 marks)