

**BOWEN UNIVERSITY, IWO**  
**DEPARTMENT OF BIOLOGICAL SCIENCES**

**2010/2011 FIRST SEMESTER EXAMINATION**  
**PLB 310: PLANT TAXONOMY**

Answer the only question in section A and two questions from section B.

Time: 2hrs 20 mins

**SECTION A**

1.
  - (a) List the aims of taxonomy
  - (b) What are the phases of developments in plant taxonomy?
  - (c) State the differences between artificial and natural systems of classification
  - (d) Write briefly on taxonomic keys
  - (e) Draw and label the longitudinal section of specimen A, draw the floral diagram and write the floral formula *(30 Marks)*

**SECTION B**

2. Discuss the herbarium methods under the following:
  - (a) Collection
  - (b) Pressing
  - (c) Drying
  - (d) Preservation*(20 Marks)*
3.
  - (a) What is a taxon?
  - (b) Write comprehensively on taxonomic hierarchy *(20 Marks)*
4. Write comprehensively on the roles of Carolus Linnaeus and Theophrastus plant taxonomy
5. Give account of the diagnostic features of any two angiosperm families *(20 Marks)*