

**BOWEN UNIVERSITY, IWO**  
**DEPARTMENT OF BIOLOGICAL SCIENCES**  
**2010/2011 FIRST SEMESTER EXAMINATION**  
**PLB 410: PALAEOBOTANY AND PALYNOLOGY**  
**PRACTICAL EXAMINATION**

Answer all questions

Time: 1hr 30 mins

1. You are provided with a solution of cotton blue in lactophenol, two slides and two coverslips. Specimens **A** and **B** are anthers of two different families of plants.
  - (a) Make temporary preparations of pollen grains from **A** & **B**.
  - (b) Observe and draw the pollen grains
  - (c) Compare and contrast the pollen grains in **A** and **B**
  
2. You are provided with a diagram showing the possible origin, evolution and distribution of Pteridophytes, gymnosperms and angiosperms in different geological periods.

Name the classes of plants that were abundant in **C, D, E, I & J**

(25 Marks)

