BOWEN UNIVERSITY, IWO DEPARTMENT OF BIOLOGICAL SCIENCES

2010/2011 FIRST SEMESTER EXAMINATION ZLY 409: EMBRYOLOGY PRACTICAL

Answer all questions.

Time: 1 hour

- (a) Observe, identify, draw and label the following stages from the specimens provided:
 - (i) 2, 4 and 8-celled blastomeres
 - (ii) Morula
 - (iii) Blastula
 - (iv) Early, mid and late gastrula
 - (b) (i) State one major feature each that can be used to identify each of the stages and justify your answer by briefly explaining why the feature is important in its identification.
 - (ii) Comment briefly on the significance of each stage
 - (iii) State a major difference between each of the stages identified in (a) above.
- What basic process gives rise to the stages in (1a) above and why is the process important?
 - (b) Briefly explain the various cleavage patterns studied by you.

(25 Marks)