## BOWEN UNIVERSITY, IWO DEPARTMENT OF BIOLOGICAL SCIENCES

## 2010/2011 FIRST SEMESTER EXAMINATION

## ZLY 409: EMBRYOLOGY THEORY

Answer any three questions. Time:			2 hrs 15 mins		
1.	(a)	Define fertilization and discuss how it is accomplished in chordates.			
	(b)	In terms of metabolism, discuss the features po egg that makes them capable of carrying out fer			
2.	(a)	Discuss the process of cleavage and its product	of cleavage and its product in a named chordate.		
	(b)	Explain the importance of cleavage and the influpatterns.	ience	of yolk on cleavage (25 Marks)	
3.	(a) (b)	Discuss using diagrams where appropriate, gastrulation in <i>Amphioxus</i> .  Describe the types of extra-embryonic membranes you know  (25 Marks)			
4.	(a)	Discuss in detail, the process of neurulation in a	ss of neurulation in a named chordate.		
	(b)	How is the process described above important in	n emb	ryonic development* (25 Marks)	
5.	(a)	Discuss in brief, the process of Oogenesis			
	(b)	Compare and contrast, the process of gametoge animals	enesis	in male and female (25 Marks)	