



KENYATTA UNIVERSITY
UNIVERSITY EXAMINATIONS 2011/2012
SECOND SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
SZL 203: DEVELOPMENTAL BIOLOGY

DATE: Tuesday 27th March, 2012

TIME: 8.00 a.m. – 10.00 a.m.

INSTRUCTIONS

Answer ALL questions from Section A and ONE question from Section B. Within a section all questions carry equal marks. Illustrate your answers with diagrams and give examples whenever appropriate.

SECTION A – Answer ALL questions (40 marks).

1. Using a diagram describe the method of gastrulation by Delamination.
2. Describe the formation of acrosome in sperms.
3. Outline the functions of fertilizin in eggs.
4. Explain the function of androgamones.
5. Explain cytoplasmic maturation in eggs and sperms.
6. Describe briefly the process of nephrotome formation.
7. With the help of diagram explain the radial and spiral type of cleavage.
8. Explain following terms:
 - (i) Morula
 - (ii) Monospermy
 - (iii) Zona pellucida
 - (iv) Telolecithal

SECTION B – Answer any ONE question (30 marks).

9. Write an account on the virginal development in animals and explain its advantages and disadvantages.
10. Describe in detail the process of Blastulation in eggs.
11. Write an essay on Placentation in mammals.