



**RAJARATA UNIVERSITY OF SRI LANKA  
FACULTY OF APPLIED SCIENCES**

**B.Sc. (General) Degree in Applied Sciences  
Third Year - Semester I Examination – June/July 2018**

**ZOO 3204 – EMBRYOLOGY AND DEVELOPMENTAL BIOLOGY**

**Time: Two (02) hours**

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**Answer any FOUR (04) questions.**

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1. Using mouse as an example explain the process of fertilization. (25 marks)
2. a) Describe **early cleavage** in sea urchin embryos. (15 marks)  
b) Explain briefly explain how it differs from snail embryos. (10 marks)
3. Explain the significance of the amniotic egg in the success of reptiles and birds. (25 marks)
4. a) Describe briefly he processes involved in cell fate determination. (10 marks)  
b) How would you test for the different stages in this process? (15 marks)
5. a) What are stem cells? (05 marks)  
b) Describe the different types of stem cells found in animals. (20 marks)

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