



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

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

**ZOO 2203– ANIMAL BEHAVIOUR**

**Time: Two (02) hours**

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

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1. Do animals behave in a manner that benefits the individual or the group/species as a whole? Formulate your opinion with special reference to estrus synchrony in lions.

**(100 marks)**

2. Discuss **three (03)** processes that influence behavioural development in organisms.

**(100 marks)**

3. a) Describe how cooperation may evolve among animals using the concept of Evolutionarily Stable Strategy (ESS).

- b) Using examples, describe briefly factors that maintain cooperation as an ESS.

**(100 marks)**

4. a) Using examples explain the how the concept of diminishing returns could be used to explain animal behaviour.

- a) Briefly explain how the concepts of cost and benefit could be used to describe prey selection.

**(100 marks)**

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5. Write short notes on the following.

- b) Group scan sampling and focal animal sampling
- b) Red queen evolution
- c) Ideal free distribution
- d) Hoarding behaviour
- e) Kin selection and animal behaviour

(100 marks)

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