*BANGOR UNIVERSITY*

ENTRANCE SCHOLARSHIP EXAMINATION

**2019**

**BIOLOGY**

# Time allowed: 2 hours

**Answer TWO questions (please write each answer in a SEPARATE answer book).**

1. Write an essay on the prevalence, distribution and prevention of a human parasite of your choice.
2. Describe the origin of variation in natural populations.
3. Describe how mitochondria use oxygen to produce ATP.
4. Why is the carbon cycle important?
5. What are the important roles performed by proteins in the cell? Illustrate your answer with a protein of your choice.
6. Write an essay on pollination and fertilization in a flowering plant.
7. Write an essay on biodiversity and human wellbeing.
8. What is the genetic code and how does it determine the nature of organisms?