*BANGOR UNIVERSITY*

ENTRANCE SCHOLARSHIP EXAMINATION

**2022**

**BIOLOGY**

# Time allowed: 2 hours

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

1. What is the genetic code and how does it determine the nature of organisms?
2. Write an essay on pollination and fertilization in a flowering plant.
3. Why is biodiversity so important and worthy of protection?
4. Describe how the structure of the plasma membrane enables the passage of substances in and out of animal cells.
5. Describe the advantages and disadvantages for animals living in social groups.
6. Write an essay on ventilation and gas exchange in an animal group of your choice.
7. Write an essay on the prevalence, distribution and prevention of a human parasite of your choice.
8. What are the important roles performed by proteins in the cell? Illustrate your answer with a protein of your choice.