*BANGOR UNIVERSITY*

ENTRANCE SCHOLARSHIP EXAMINATION

**2021**

**BIOLOGY**

# Time allowed: 2 hours

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

1. Describe the advantages and disadvantages for animals living in social groups.
2. Discuss the use of genomics and its possible impacts on healthcare in the future.
3. Write an essay on the process of eutrophication and its impacts on habitats.
4. Discuss the adaptations of guts and dentition in herbivorous and carnivorous mammals.
5. Write an essay on ventilation and gas exchange in bony fish.
6. Describe the process of generating proteins from genetic code.
7. What are the similarities and differences in prokaryotic and eukaryotic cell structure?
8. Describe the cause, effects and prevention of a human disease of your choice.