RADLEY

2020 Scholarship Examination Paper

BIOLOGY

26 February – 27 February 2020

Time allowed – 30 Minutes

Instructions for Candidates:

You will read a passage about a Biology topic.

Please then answer the questions which follow on lined paper.

Note that some words in the text are underlined to help you find them.

There are **33 Marks** available for this paper.

Using the information in the passage and your own knowledge, answer these questions:

1. What is meant in the passage by the words underlined as follows:

i.	Invasive species	**vi**.	Keystone species	
ii.	Biodiversity	**vii**.	Native	
iii.	Competition	**viii**.	Ecosystem	
iv.	Extinction	**ix**.	Population	
v.	Omnivorous	**x.**	Climate	[10]

2. Describe three ways in which the Grey Squirrel (pictured) is adapted to living in North American woodlands. [3]

3. Name two vertebrates and two invertebrates mentioned in the passage. [4]

4. Describe two differences between reptiles and mammals. [2]

5. Would you expect mink (pictured) to be predators or prey? Explain why. [2]

6. Crayfish and fish like Trout are eaten by Otters. Write down a food web that involves these and other organisms named in the passage. [2]

7. Explain three ways in which invasive species can cause problems [3]

8. The Signal Crayfish and the White-Clawed Crayfish are both now found in Britain. For each explain:

i. An advantage of it being here? [2]

ii. A problem they might cause?

9. Deforestation is one of the biggest challenges facing the Earth and its ecosystems today. Explain in as much detail as you can what problems wildlife is facing because of it and explain how translocation could help avoid the problem. (Hint: see last paragraph on “The Future”) [5]

TOTAL = 33 MARKS