

2 Chickens are birds that are bred by farmers to produce eggs and meat. Modern farmed chickens are very different from the red junglefowl that is their wild ancestor.

Table 2.1 describes some of the characteristics of red junglefowl and farmed chickens.

Table 2.1

type of bird	mean body mass/g	mean number of eggs per year	mean mass of pectoral muscle/g	mean age at maturity/days
red junglefowl	775	12	91	142
chicken	4090	160	437	59

(a) (i) Using Table 2.1, calculate the percentage change in the mean body mass from the red junglefowl to the chicken.

Give your answer to **three** significant figures.

Space for working.

..... % [3]

(ii) Suggest reasons why farmers have selectively bred chickens to reach maturity faster than red junglefowl.

.....
.....
.....
.....
..... [2]

(iii) Describe how a farmer could breed chickens with a larger body mass.

.....
.....
.....
.....
.....
..... [3]

(b) Chicken faeces can be used as a fertiliser.

Chicken faeces spread on agricultural land near lakes can act as a pollutant, and cause the destruction of the freshwater habitat.

Explain how the use of chicken faeces near freshwater lakes can lead to habitat destruction.

.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
.....
..... [6]

(c) Chicken waste contains a substance that is similar to urea.

Explain how urea is made in humans.

.....
.....
.....
.....
.....
.....
.....
.....
.....
..... [3]