

# Inheritance

## Question Paper 3

Level	Edexcel
Subject	Biology
Exam Board	GCSE(9-1)
Topic	Genetics
Sub Topic	Inheritance
Booklet	Question Paper 3

**Time Allowed:** 15 minutes

**Score:** /12

**Percentage:** /100

1 (a) The photograph shows the common rat *Rattus norvegicus*.



State the level of classification for both parts of the binomial name *Rattus norvegicus*.

(2)

*Rattus* .....

*norvegicus* .....

(b) Some rats have a mutation which enables them to eat the rat poison Warfarin and survive.

Suggest how the use of Warfarin could lead to an increase in the number of rats with this mutation.

(2)

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(c) The allele for Warfarin resistance is recessive.

Complete the Punnett square to show how two rats, both heterozygous for Warfarin resistance, could produce Warfarin resistant offspring.

Use **R** and **r** to show the dominant and recessive alleles.

(2)




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**(Total for Question 1 = 12 marks)**

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