

GCSE Biology B (Twenty First Century Science)

J257/01 Breadth in Biology (Foundation)

Question Set 25

Multiple Choice Questions

Fig. 5.1 shows the life cycle of a male chicken.

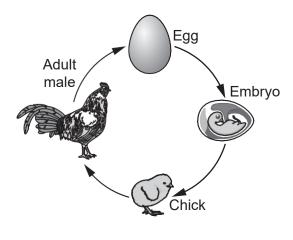


Fig. 5.1

(a) An adult male chicken has 78 chromosomes in a body cell. The adult male chicken makes sperm cells. How many chromosomes will there be in one sperm cell?
(b) As a chick grows, the number of cells that make up its body increases

What is the name given to the type of cell division involved in growth?

Tick (\checkmark) one box.

(C)

Meiosis		
Mitosis		
Replication		[1]
Chickens reproduce sexually.		[1]

Give **one** biological advantage of sexual reproduction.

(d) A chicken's sex is determined by genes located on the sex chromosomes.
 Chickens have two different sex chromosomes, Z and W.
 Male chickens are ZZ and female chickens are ZW.

Describe how sex determination in chickens is different to that of humans.

[2]

[1]

Total Marks for Question Set 25: 5



Copyright Information

OCR is committed to seeking permission to reproduce all third-party content that it uses in its assessment materials. OCR has attempted to identify and contact all copyright holders whose work is used in this paper. To avoid the issue of disclosure of answer-related information to candidates, all copyright acknowledgements are reproduced in the OCR Copyright Acknowledgements Booklet. This is produced for each series of examinations and is freely available to download from our public website (www.ocr.org.uk) after the live examination series.

If OCR has unwittingly failed to correctly acknowledge or clear any third-party content in this assessment material, OCR will be happy to correct its mistake at the earliest possible opportunity.

For queries or further information please contact The OCR Copyright Team, The Triangle Building, Shaftesbury Road, Cambridge CB2 8EA.

OCR is part of the Cambridge Assessment Group; Cambridge Assessment is the brand name of University of Cambridge Local Examinations Syndicate (UCLES), which is itself a department of the University of Cambridge