

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Meiosis Answers

Name:

M M E

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Total Marks: /20

Q1: What is meiosis?

A= 1 mark for each of the following:

- 2 stage process of cell division
- Involved in gamete production/ sexual reproduction

(2 marks)

Q2: State the differences in the number of chromosomes between meiosis and mitosis.

A= 1 mark for each of the following:

- Meiosis – 23
- Mitosis – 46

(2 marks)

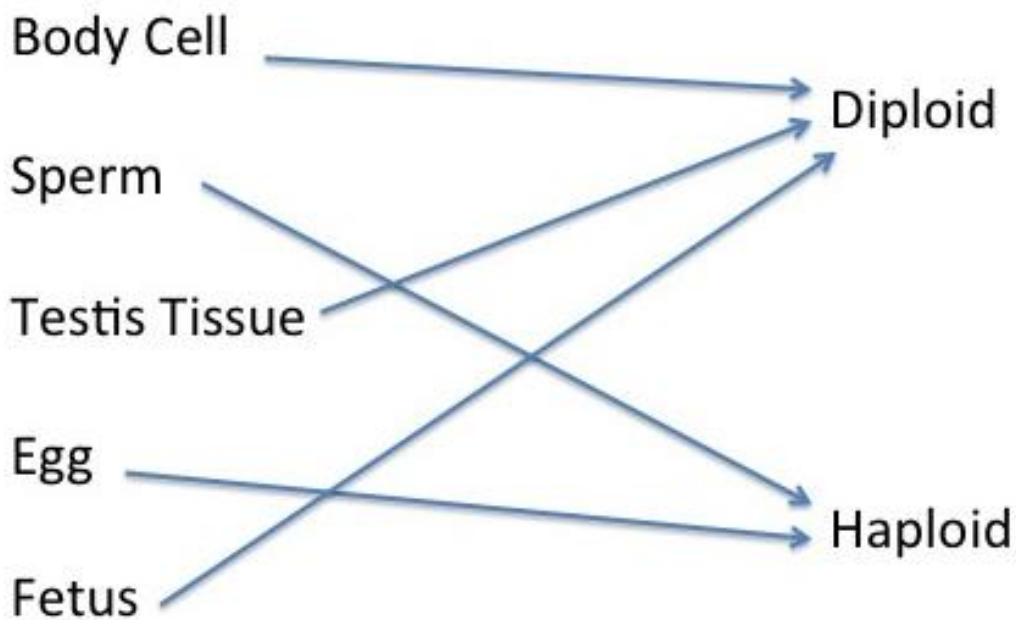
Q3: Name the female and male gametes.

A= 1 mark for each of the following:

- Female – Egg cell/ Ova
- Male – Sperm

(2 marks)

Q4: Connect the cells to the correct form.



(5 marks)

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Q5: Discuss the differences in cell division between sexual and asexual reproduction.

A= 1 mark for each of the following:

- Sexual – Meiosis
- Asexual – Mitosis

(2 marks)

Q6: Explain why meiosis introduces variance in the offspring.

A= Accept 1 of the following:

- Introduction of another set of genetic material
- Combination of gene

(1 mark)

Q7: Explain why each sperm cell is genetically different from all the other sperm cells.

A= Random mix of original chromosomes

(1 mark)

Q8: Describe the meiosis process.

A= 1 mark for continuous prose and 4 of the following:

- Copy of genetic info
- 4 sets each chromosome
- Cells divide to form 4 gametes
- Each have a single set of chromosomes

(5 marks)