

**AQA, OCR, Edexcel**

**GCSE Science**

# **GCSE Biology**

**Mitosis and the Cell Cycle  
Questions**

Name:

**M M E**

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**Total Marks: /22**

Q1: Describe the process of mitosis.

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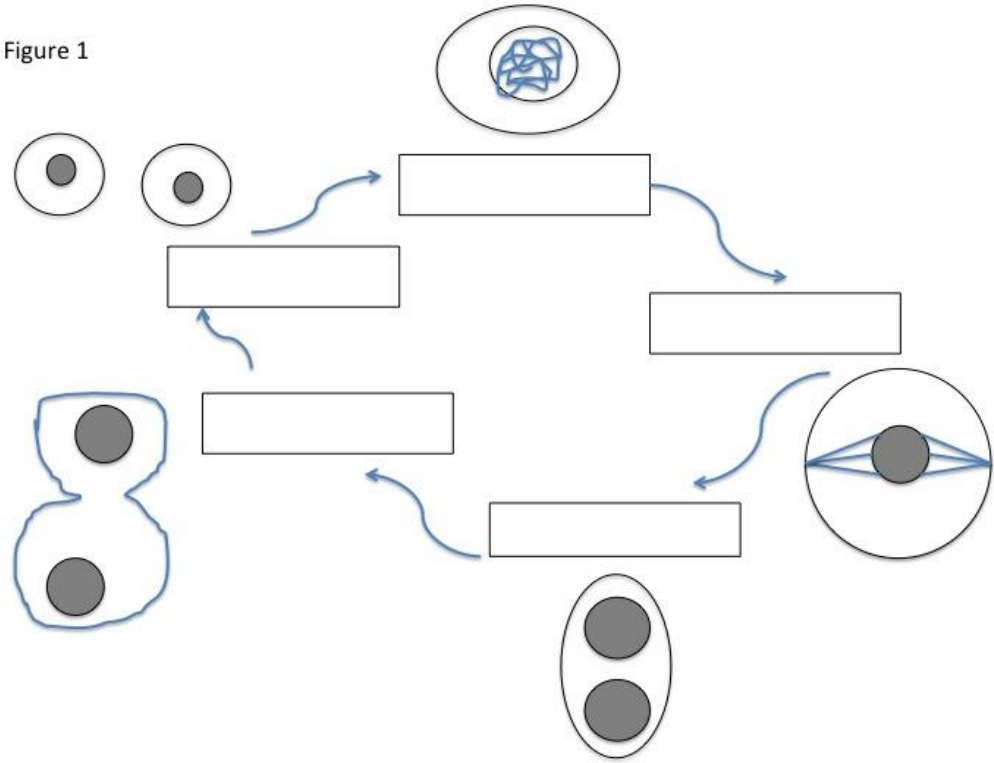
(3 marks)

Q2: Mitosis is a vital part of the cell cycle. Give 2 reasons cells use mitosis.

1. \_\_\_\_\_  
2. \_\_\_\_\_

(2 marks)

Q3: Figure 1 shows the stages of mitosis. Label the following diagram.



(5 marks)

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Q4: Bananas share 32% of their DNA with humans. The human genome contains 6600 million bases. Calculate the number of bases which are the same in bananas and humans.

(2 marks)

Q5: Explain how many cells would be present in a human embryo after 3 cell divisions' using mitosis.

Number of cells after 3 divisions = \_\_\_\_\_

(2 marks)

Q6: What is the difference between mitosis and meiosis?

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(2 marks)

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Q7: The cells in a giraffe contain 2 sets of chromosomes, one from each parent. What term can be used to describe these types of cell?

\_\_\_\_\_ (1 mark)

Q8: Describe what happens during anaphase.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (2 marks)

Q9: Describe what happens during prophase.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_ (3 marks)