

AQA, OCR, Edexcel

GCSE Science

GCSE Biology

Microscopy Questions

Name:

M M E

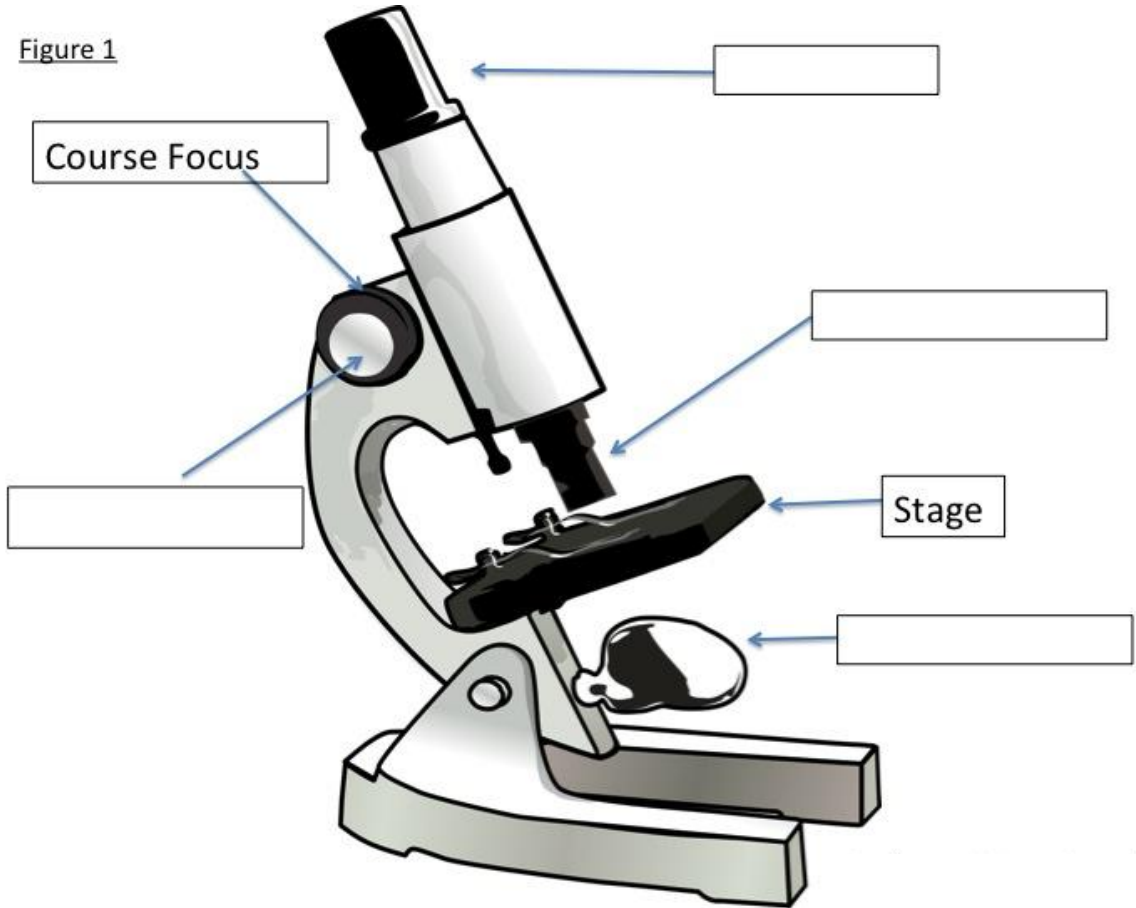
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Total Marks: /18

Q1: Why do scientists use microscopes?

_____ (1 mark)

Q2: The diagram below shows a light microscope. Complete the labels in figure 1.



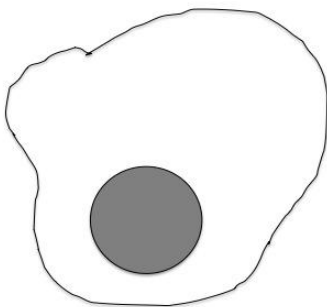
(4 marks)

Q3: Explain the function of the mirror in a light microscope.

_____ (1 mark)

Q4: Figure 2 shows an animal cell using a 10X eye piece lens and a 20X objective lens. Calculate the total magnification of the image shown in figure 2.

Figure 2



(3 marks)

Q5: Give a definition of resolution.

_____ (1 mark)

Q6: The invention of the electron microscope has allowed scientists to find out more information about cells. Explain how the electron microscope has helped our understanding of cells.

(3 marks)

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Q7: Electron microscopes provide many advantages for scientists. What is a disadvantage of using an electron microscope?

Tick one box.

Higher Magnification

Expensive

Lower Resolution

(1 mark)

Q8: Calculate the actual size of an onion cell if it measures 20mm using a 1000X magnification.

Length of cell= _____ (3 marks)

Q9: Scientists have also developed a scanning electron microscope. What does this allow scientists to do?

(1 mark)