

Principles of organisation: practice questions

4 questions • 6 marks • mark scheme at the back

For AQA GCSE Biology 8461 and Combined Science: Trilogy 8464. **Triple only** is not in Combined Science. **Higher tier** is only on the Higher paper.

Name

Total / 6

1 Which list shows the levels of organisation in order, from smallest to largest? [1 mark]

- A. ☐ Cell, tissue, organ, organ system
- B. ☐ Tissue, cell, organ, organ system
- C. ☐ Cell, organ, tissue, organ system
- D. ☐ Organ system, organ, tissue, cell

2 The stomach contains muscular tissue, glandular tissue and epithelial tissue. Explain why the stomach is an organ. [2 marks]

3 Each cell in a tissue is 20 μm wide. Calculate how many cells fit side by side across a width of 1 mm. (1 mm = 1000 μm) [2 marks]

Answer =

4 Which of these is an example of an organ system? [1 mark]

- A. ☐ The heart
- B. ☐ The digestive system
- C. ☐ Muscular tissue
- D. ☐ Palisade mesophyll cell

Mark scheme

One mark for each point unless a maximum is given. Words in brackets are not needed for the mark.

1. [1]

A A (1)

2. [2]

- it is made of several / different tissues (1)
- that work together to perform a specific function / to digest food (1)

3. [2]

- $1000 \div 20$ (1)
- 50 (cells) (1)
- allow 2 marks for the correct answer with no working

4. [1]

B B (1)