

Antibiotics, culturing microorganisms and new medicines: practice questions

2 questions • 4 marks • mark scheme at the back

For Edexcel GCSE Combined Science 1SC0. **Higher tier** is only on the Higher paper.

Name

Total / 4

1 Why can antibiotics not be used to treat a viral disease? [1 mark]

- A. ☐ Viruses are too large to be affected
- B. ☐ Viruses reproduce too quickly for antibiotics to act
- C. ☐ Viruses live inside host cells and do not have the bacterial cell processes that antibiotics inhibit
- D. ☐ Viruses have a cell wall that antibiotics cannot pass through

2 Describe the stages in the development of a new antibiotic, in the correct order. [3 marks]

Mark scheme

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

1. [1]

C C (1)

2. [3]

- discovery of the chemical (1)
- development (1)
- preclinical testing, on cells, tissues and live animals (1)
- clinical testing on people (1)
- Max 3