

10.2 Antibiotics

Question Paper

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| Course | CIEA Level Biology |
| Section | 10. Infectious Disease |
| Topic | 10.2 Antibiotics |
| Difficulty | Medium |

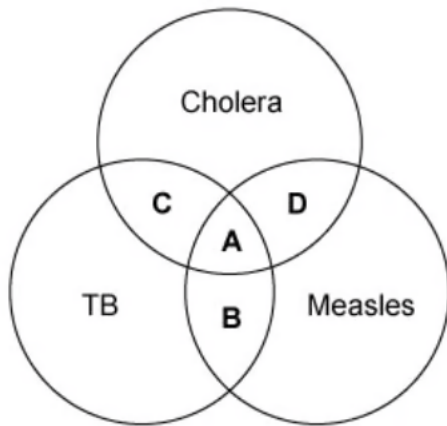
Time allowed: 10

Score: /5

Percentage: /100

Question 1

Which of these diseases can be cured with antibiotics?



[1 mark]

Question 2

Bacteria and viruses are the main pathogens in humans. Antibiotics can be used to treat bacterial infections but not viral infections.

Which of the following statements explains why?

- A. Viruses need a host to survive.
- B. Viruses consist of just nucleic acid and a protein coat.
- C. Bacteria have peptidoglycan cell walls.
- D. Viruses are significantly smaller than bacteria.

[1 mark]

Question 3

Antibiotics can interfere with aspects of growth or metabolism in bacterial cells.

Which of the following is not a mode of action of antibiotics?

- A. Preventing the synthesis of protein
- B. Preventing enzyme action
- C. Preventing DNA synthesis
- D. Preventing the production of cellulose cell walls

[1 mark]

Question 4

Some bacteria have developed a resistance to penicillin.

Which of the following would explain how bacteria can prevent the action of penicillin?

- A. production of mRNA
- B. production of β -lactamase
- C. production of peptidoglycan
- D. production of phospholipids

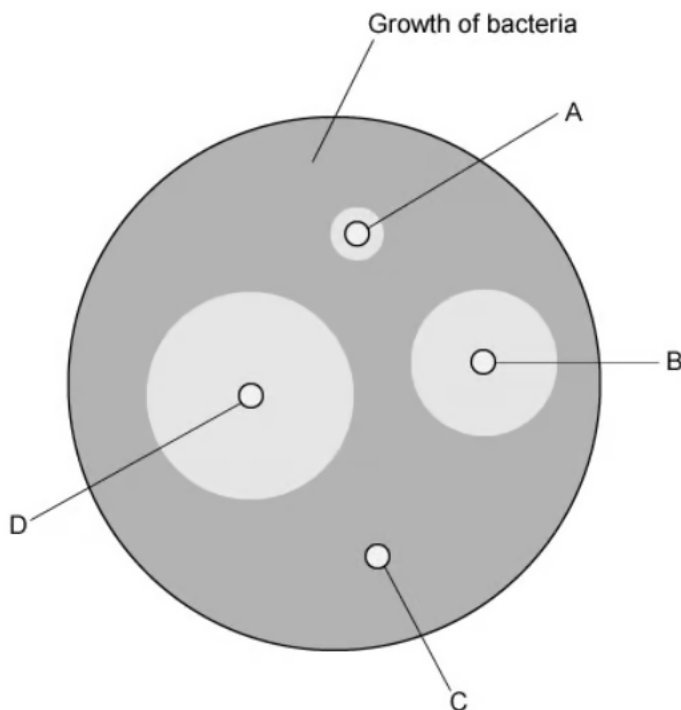
[1 mark]

Question 5

An antibiotic sensitivity test was performed on bacteria isolated from a patient's throat.

The diagram shows the results of the four antibiotics tested.

Which one should be used to treat the disease?



[1 mark]