



Bacterial Disease

1 Fill in the missing words

Bigger / 100,000 / Replicate / Smaller / 2 / Prokaryotic / Pathogens / 100 / Toxins / Damage / Single

Bacteria are **prokaryotic** organisms that, and each consists of just a **single** cell, which is **100** times **smaller** than on of our cells. Most bacteria do not have any interaction with humans and many of the ones that do are beneficial. Some bacteria can cause disease though as we call these **pathogens**. They can **replicate** rapidly within our bodies and cause our cells damage; one of the ways they do this is by producing **toxins**.

[7 marks]

2 Salmonella is a bacterial infection

a) How is the Salmonella bacteria spread and how do we catch it?

- It is spread by being passed between animals, such as chickens, and consuming food that has been contained by it.

[2 marks]

b) How could we reduce the chance of catching Salmonella?

- Vaccinate chickens, avoid chickens, prepare food properly, wash kitchen utensils properly etc

[2 marks]

c) What symptoms does Salmonella give?

- Two of: vomiting, diarrhoea, stomach cramps, fever

[2 marks]

3 Gonorrhoea is an example of as STD

a) What is an STD and how are they caught?

- Sexually transmitted infection - generally caught through unprotected sex (could also say exchanging blood)

[2 marks]

b) Suggest one way we can prevent Gonorrhoea and one way we can treat it

Prevent - Abstain from sex, use barrier methods of contraception such as condoms etc

Treat - Antibiotics / penicillin

[2 marks]

[Total 17 marks]

These are sample answers and should not be taken as the only correct answers