

1 *Salmonella* is a type of bacteria which causes disease in humans.

1.1 Which of the following infectious diseases is also caused by bacteria?
Tick **one** box.

- ☐ Measles
☐ Gonorrhoea
☐ Malaria
☐ HIV

[1 mark]

1.2 Give **two** symptoms of *Salmonella* food poisoning.

1.
2.

[2 marks]

1.3 Compare how bacteria and viruses cause symptoms in a host.

.....
.....
.....
[2 marks]

Figure 1 shows a diagram of a *Salmonella* bacterium.



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Table of Contents **Pas Biology Exam Papers**

1. Understanding the eBook Pas Biology Exam Papers
 - The Rise of Digital Reading Pas Biology Exam Papers
 - Advantages of eBooks Over Traditional Books
2. Identifying Pas Biology Exam Papers
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pas Biology Exam Papers
 - User-Friendly Interface
4. Exploring eBook Recommendations from Pas Biology Exam Papers
 - Personalized Recommendations
 - Pas Biology Exam Papers User Reviews and Ratings
 - Pas Biology Exam Papers and Bestseller Lists

5. Accessing Pas Biology Exam Papers Free and Paid eBooks
 - Pas Biology Exam Papers Public Domain eBooks
 - Pas Biology Exam Papers eBook Subscription Services
 - Pas Biology Exam Papers Budget-Friendly Options
6. Navigating Pas Biology Exam Papers eBook Formats
 - ePub, PDF, MOBI, and More
 - Pas Biology Exam Papers Compatibility with Devices
 - Pas Biology Exam Papers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pas Biology Exam Papers
 - Highlighting and Note-Taking Pas Biology Exam Papers
 - Interactive Elements Pas Biology Exam Papers
8. Staying Engaged with Pas Biology Exam Papers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pas Biology Exam Papers
9. Balancing eBooks and Physical Books Pas Biology Exam Papers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pas Biology Exam Papers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Pas Biology Exam Papers
 - Setting Reading Goals Pas Biology Exam Papers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Pas Biology Exam Papers
 - Fact-Checking eBook Content of Pas Biology Exam Papers
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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 $\text{H}_2\text{O g} + \text{H}_2 \text{ g} \rightarrow \text{C}_2\text{H}_6 \text{ g} \quad \Delta h = 71.2 \text{ kJ}$
 $\text{C}_2\text{H}_6 \text{ g} + \frac{7}{2} \text{O}_2 \text{ g} \rightarrow 2 \text{ CO}_2 \text{ g} + 3 \text{ H}_2\text{O g} \quad \Delta h = 283 \text{ kJ}$
 $\text{C}_2\text{H}_6 \text{ g}$

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 $\text{C}_2\text{H}_6 \text{ g} + \frac{7}{2} \text{ O}_2 \text{ g} \rightarrow 2 \text{ CO}_2 \text{ g} + 3 \text{ H}_2\text{O l} \quad \Delta h = 1560 \text{ kJ}$
 $\text{H}_2 \text{ g} + \frac{1}{2} \text{ O}_2 \text{ g} \rightarrow \text{H}_2\text{O l} \quad \Delta h = 285 \text{ kJ}$
 mole

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