B5 Communicable disease

Name ………………………………………………….

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| Question No | Mark |
| 1 |  |
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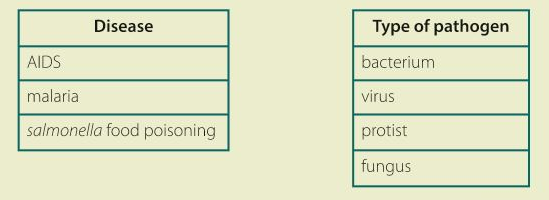
Class …………………………………………………..

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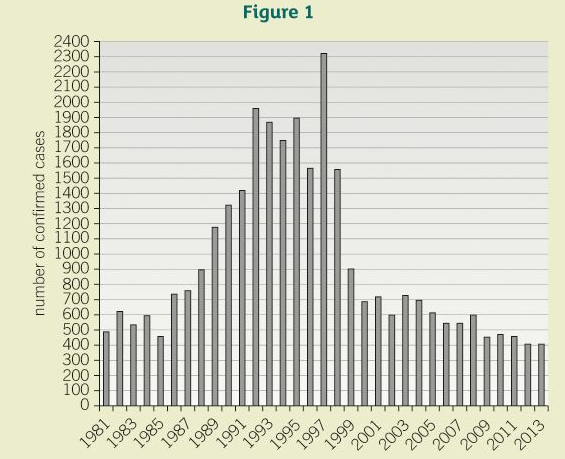
01 Pathogens cause infectious diseases.

* 1. Match each disease to the type of pathogen that causes the disease.

 [ 3 marks]

*Salmonella* food poisoning is caused by ingesting food contaminated with the pathogen.

**Figure 1** shows the number of laboratory confirmed cases of *salmonella* food poisoning in Wales from 1981 to 2013



01.2

In which year was the highest number of confirmed cases of *salmonella* ?

………………………….. [ 1 mark]

01.3

How many confirmed cases were there in that year ? ………………………… [ 1 mark ]

01.4

Suggest one reason why this value may not be the total number of *Salmonella* cases in Wales that year .

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01.5

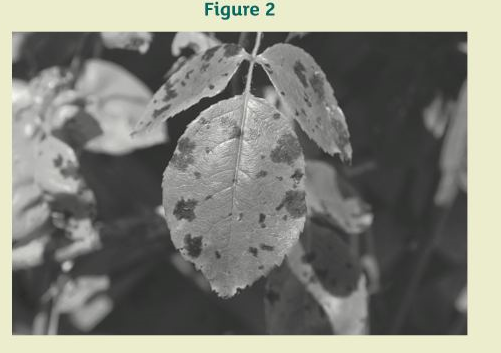
The high number of cases that year was due to people eating eggs from infected chickens. The number of cases of *salmonell*a has rapidly decreased since then.

Suggest **two** reasons for the decrease.

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02

Rose black spot is a fungal infection of roses.

**Figure2**  shows a rose leaf infected with the rose black spot fungus.

Black spots appear on the leaves. The leaves may turn yellow and drop from the plant.

02.1

Explain how rose black spot disease might affect the growth of a rose bush.

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02.2

Suggest **two** things a gardener could do to kill the fungus and reduce the chance of another rose black spot infection.

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03

Pathogens can enter the body through cuts in the skin, through the breathing system, and through the digestive system.

03.1 Describe how the body is adapted to reduce the entry of pathogens through these three routes.

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If pathogens do enter the body, white blood cells work in different ways to defend against the pathogens.

03.2

Describe **two** ways that white blood cells can kill pathogens.

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03.3

If pathogens reproduce to form a large population inside the body they cause an infection. The person may feel ill.

Describe how white blood cells can reduce the symptoms of an infection.

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