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| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | |  |  | | **1.** | Tuberculosis (TB) and Coronary Heart Disease (CHD) cause millions of deaths each year.  TB is described as an infectious disease, whereas CHD is described as a non-infectious disease.   1. What is meant by the term infectious disease?         **[1]**   1. Give **one** other example of an infectious disease and **one** other example of a non-infectious disease.  Infectious disease     Non-infectious disease    **[1]** | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | |  |  | | **2.** | The potato plant, Solanum tuberosum, is a staple food plant in many parts of the world. Potatoes are susceptible to infection by a pathogen called Phytophthora infestans, which causes a disease known as potato late blight. The most visible sign of the disease is a brown discolouration of the leaves. Some varieties of potato are resistant to infection by P. infestans.  State **two** ways in which an individual S. tuberosum plant could respond to infection by P. infestans.  1        2      [2] | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | |  |  | | **3.** | Explain how the malarial parasite is able to bypass the body's primary defences.      **[2]** | | |
| |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | |  | |  |  | | --- | --- | |  |  | | **4.** | \* A student cut their hand during a field trip. The bleeding stopped within a few minutes and formed a scab over the cut. However, over the next three days they noted that the area around the cut became swollen, red and tender. They also noted a small swelling and discomfort in their armpit.  Describe the non-specific defences against pathogens that would explain **all** these observations.                                  **[6]** | | |

**END OF QUESTION PAPER**