

AS Level Biology A
H020/01 Breadth in Biology

Question Set 21

1. The specific immune system is based on white blood cells called lymphocytes.

(a) Complete the following passage by using the most appropriate terms from the list. You may use terms once, more than once or not at all.

memory plasma killer T cell antigens antibodies

interleukins phagocyte meiosis mitosis hormones

When a pathogen enters the body it is recognised due to specific molecules on the surface of its cells called A phagocyte will engulf the pathogen and process these molecules by displaying them on the surface of the phagocyte. This cell will now interact with a special type of T lymphocyte called a T helper cell. The T helper cells produce.....that will activate the B lymphocytes. They start to divide by These cells now differentiate into cells, which synthesise and release

[5]

(b) A student wrote the following passage in an essay on the immune system.

Immunisation programmes involve injecting individuals with a small amount of the safe antibody, known as a vaccine. In the UK, babies are given routine vaccinations against a range of infectious diseases including diphtheria and measles. These injections provide a form of natural passive immunity that may last a year, a few years or a lifetime.

State **three** errors that the student has made in this passage.

[3]

Total Marks for Question Set 21: 8

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