**IMMUNE AND LYMPHATIC SYSTEM**

**Question 1**

The best definition of a bacteriophage is:

1. a bacterium that has an outer coating of protein and DNA that is not enclosed in a nuclear membrane.
2. a virus that multiplies inside a bacterial cell and causes the death of the bacterium.
3. a bacterium that can be transmitted via contact.
4. a single celled bacterium that is spherical in shape.

**Question 2**

The ‘Amanda Young Foundation’ was established to increase the community’s awareness of Meningococcal Disease. A person who contracts the disease will suffer several symptoms including a severe headache and a stiff or painful neck. Antibiotics are given and in most cases treat the symptoms. Meningococcal Disease should be classified as a

1. fungal infection.
2. viral infection.
3. bacterial infection.
4. opportunistic parasite infection.

**Question 3**

Name three external defences and describe how each function to protect the body against pathogens. [4]

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**Question 4**

Describe the differences between viruses and bacteria, including size and shape, method of reproduction and methods of tranmission. Give an example of each. [4]

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**Question 5**

Describe the processes of blood clotting and clot retraction. [4]

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**Question 6**

Inflammation is a response to damaged tissue. In the context of this process, distinguish between mast cells and phagocytes, and histamine and heparin.[4]

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**Question 7**

What is lymph? What role do lymph nodes play in the lymphatic system? [3]

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**Question 8**

Differentiate between the terms vaccination and immunisation. [2]

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**Question 9**

Describe an antigen and its role in an immune response. [4]

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