**GENERAL HUMAN BIOLOGY UNIT 4**

**TASK 10 – Vaccines & Community Health Test**

**NAME:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ WEIGHTING: 10% MARK:**

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| --- | --- | --- | --- |
| **MCQ** | **Short Answer** | **Extended Response** | **Total** |
| /10 | /14 | /10 | **/34** |

**Multiple Choice Section (10 marks)**

1. Which of the following is not a type of vaccine?
   1. Toxoid
   2. Live
   3. Sub-unit
   4. Dead micro-organism
2. The first vaccination that Australian children receive is:
   1. Measles, Mumps and Rubella
   2. At four months
   3. Influenza
   4. At birth
3. A superbug is a bacterium that is:
   1. Completely resistant to all antibiotics
   2. Resistant to most antibiotics
   3. Completely resistant to all antivirals
   4. Resistant to most antivirals
4. Treatment for a ‘superbug’ infection is
   1. dependent on new antibiotics being created by researchers
   2. impossible, because they are resistant to all antibiotics
   3. possible with strong, last resort antibiotics
   4. Both c & d
5. Travel warnings are a useful tool for protection from infection when travelling internationally. In Australia, which of the following websites provides the most reliable information about travel warnings?
   1. WebMD
   2. Department of Health
   3. ABC
   4. Smart traveller
6. In which of the following countries would you have the highest chance of being infected with malaria?
   1. Portugal (Western Europe)
   2. Indonesia (South East Asia)
   3. Nigeria (Central, West Africa)
   4. Mexico (Central America)
7. Standards of hygiene and rates of infection vary between global communities. Which of the following options is not an important factor that affects standards of hygiene and the incidence of infection?
   1. Regularity of bathing
   2. Sanitation of water
   3. Waste treatment
   4. The actual presence of pathogens and disease vectors
8. Passive, natural immunity can be achieved through:
   1. Natural exposure to a pathogen
   2. Injection of antibodies
   3. Injection of a weakened pathogen
   4. Consuming antibody-rich breast milk
9. Active, natural immunity can be achieved through:
   1. Natural exposure to a pathogen
   2. Injection of antibodies
   3. Injection of a weakened pathogen
   4. Consuming antibody-rich breast milk
10. Which of the following is an example of an antiseptic?
    1. Detergent
    2. Warm water
    3. Dettol
    4. Broad-spectrum antibiotic

**Short Answer Section (14 marks)**

1. Name the two types of antibiotic and explain how they work. (3 marks)

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1. Explain why it is important that a person takes all of their prescribed antibiotics. (3 marks)

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1. Describe the difference between antivirals and antiseptics (2 marks)

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1. Explain why antibiotics are ineffective against viruses (2 marks)

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1. State one advantage and one disadvantage of live attenuated vaccines. (2 marks)

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1. Explain why memory cells are not made against a pathogen when passive immunity is acquired. (2 marks)

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**Extended Response Section (10 marks)**

1. Discuss the arguments for and against compulsory vaccinations for Australians.

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