EOG Review: 2nd Quarter 8.L.1.1, 8.L.1.2 & 8.L.2.1 Name:

**DO NOT WRITE IN COACH BOOK!**

Health, Disease and Biotechnology

Part 1: Human Health

Directions: Read pages 76 – 80 in the Coach book at your desk and answer the following questions.

1. In the first paragraph under “Getting the Idea,” What does the book tell you about Human Health that is different than what we learned in class?
2. In the section Systems Working Together, How do the body systems work together to transport food and oxygen necessary for cellular respiration?
3. You have heard the expression “You are what you eat”: What does this statement mean? In your explanation, mention about proteins, lipids and other nutrients.
4. Under the section Tobacco and Health, answer the following questions.

How does smoke from cigarettes affect the body?

 What are the diseases that smoking can cause?

What is an addiction and why is smoking addictive?

1. Alcohol is a drug. How can abusing alcohol affect your body?

Turn to page 81 in the Coach book and answer the multiple choice questions:

|  |  |  |  |
| --- | --- | --- | --- |
| Question # | Answer | Question # | Answer |
| 1. |  | 4. |  |
| 2. |  |  |  |
| 3. |  | Total pts. |  |

Part II: Diseases

Directions: Read pages 83 – 86 in your Coach book at your desk and answer the following questions.

1. Explain what microbiology is and what is included in the definition?
2. Describe what a pathogen is?
3. Fill in the following table about the different types of pathogens.

|  |
| --- |
| Pathogen Living? Y or N Description How does affect human body? |
| Fungi |
| Parasite |
| Virus |
| Bacteria |

1. How does a person contract athlete’s foot?
2. From the reading, what disease is caused by a parasite?
3. When and where are bacteria useful to the body?
4. Some diseases caused by bacteria are?
5. Fill in the table on page 84 in the Coach Book.

Diseases Caused by Bacteria

|  |  |  |
| --- | --- | --- |
| Disease | Bacterium | Effect on Body |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |
|  |  |  |

1. Explain the difference between viral and bacterial meningitis, the spread of and severity of each?
2. What are antibiotics? For which pathogen can they be used for?
3. We are a society that goes to the doctor and expects to have an antibiotic when ever we are sick or uses antibacterial soap, dishwashing detergent and other antibacterial products. Why may this not be a good thing?
4. What are some diseases that are caused by viruses?
5. Draw a picture in the box below of how a virus reproduces and label.

1. Are antibiotics beneficial in curing a virus? Why or why not? What is beneficial to combating a virus?
2. Turn to page 86 in the Coach Book and answer the multiple choice questions.

|  |  |  |  |
| --- | --- | --- | --- |
| Question # | Answer | Question # | Answer |
| 1. |  | 3. |  |
| 2. |  | 4. |  |

Part III: Epidemics, Pandemics, Infectious Disease, Vector, Vaccine:

Directions: Read pages 87 - 90 in your Coach book at your desk and answer the following questions.

1. In the first section “Keeping People Healthy” of Coach book page 87what is the role of the public health scientist?
2. What is an infectious disease?
3. Fill in the blanks:

Infectious Diseases

Definition:

Definition

Examples

1. How can infectious diseases harm plants and animals? Give examples from reading.

Definition

Carriers

Types of diseases/avoidance

1.

Vectors:

Ve

1. How do you prevent infectious diseases?
2. What is a vaccine? What diseases have been wiped out because of vaccines?

Turn to page 91 in Coach book and answer the multiple choice questions.

|  |  |  |  |
| --- | --- | --- | --- |
| Question | Answer | Question | Answer |
| 1. |  | 3. |  |
| 2. |  | Total pts |  |

Part 4: Biotechnology

Directions: Read pages 92 - 95 in your Coach book at your desk and answer the following questions.

1. In the first paragraph under “Getting the Idea, how many years have people changed plants and animals for human use?
2. Fill in the blocks with definitions and how each breeding works.

Biotechnology

 Selective Breeding

 Cross breeding

1. What is genetic modification?
2. Explain how genetic modification is used in the following? Gene splicing, herbicides, genome
3. How has Biotechnology helped North Carolina’s economy?
4. What is DNA fingerprinting and how is it used?
5. Animal Cloning: What is cloning and how could it be used to improve an organism?
6. What is bioremediation and what is it used for? How does this help the environment?
7. What are the risks involved with biotechnology? Give the three examples from page 95 and explanations as to the risks.

Turn to page 96 in Coach book and answer the multiple choice questions.

|  |  |  |  |
| --- | --- | --- | --- |
| Question | Answers | Question | Answer |
| 1 |  | 3 |  |
| 2 |  | 4 |  |

Quarter 2/ Chapter 4: Review Assessment:

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2. \_\_\_\_\_\_\_
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