



**Towheed Iranian School**  
(International Section)  
First Term, Final Exams, 2015-2016

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| Mark  |
| _____ |
| 20    |

Subject: LIFE SCIENCE

Date: 14/12/2015

Name: \_\_\_\_\_

Grade: Eight, Section: A D

Exam time: 60 min

A) Choose the best answer and write it in the space provided.

5 marks

- \_\_\_\_\_ 1. The northern snakehead fish was introduced into North America from Asia. It is an example of a(n)
- a. plant species.
  - b. endangered species.
  - c. exotic species.
  - d. renewable species.
- \_\_\_\_\_ 2. Which of the following is NOT an example of a renewable resource?
- a. solar energy
  - b. wind energy
  - c. some kinds of trees
  - d. coal
- \_\_\_\_\_ 3. The part of the kidney that filters the blood is the
- a. artery.
  - b. ureter.
  - c. nephron.
  - d. urethra.
- \_\_\_\_\_ 4. What process releases the energy that is used in nuclear power plants to generate electrical energy?
- A. the burning of radioactive fuel
  - B. the reaction of hydrogen and oxygen to form water
  - C. the splitting of nuclei into two or more smaller nuclei
  - D. the joining of two or more nuclei to form a larger nucleus
- \_\_\_\_\_ 5. The fingerlike projections that line the small intestine are called
- a. emulsifiers.
  - b. fats.
  - c. amino acids.
  - d. villi.
- \_\_\_\_\_ 6. Which of the following is true of all fossil fuels?
- A. Fossil fuels are liquid.
  - B. Fossil fuels are found only on land.
  - C. Fossil fuels move through permeable rock.
  - D. Fossil fuels form from the remains of ancient organisms.
- \_\_\_\_\_ 7. The soupy mixture of food, enzymes, and acids in the stomach is called
- a. chyme.
  - b. villi.
  - c. urea.
  - d. vitamins.

- \_\_\_\_\_ 8. Which chemicals destroy protective ozone?
- PCBs
  - CFCs
  - radioactive wastes
  - carbon dioxide and oxygen
- \_\_\_\_\_ 9. What are the bones that protect your spinal cord called?
- neurons
  - homeostasis
  - vertices
  - vertebrae
- \_\_\_\_\_ 10. The gall bladder stores
- food.
  - urine.
  - bile.
  - villi.

**B) Read the words in the box. Read the sentences. Fill in each blank with the word or phrase that best completes the sentence. 2.5 marks**

|            |                      |        |
|------------|----------------------|--------|
| central    | information          | nerves |
| peripheral | central command post |        |

- The nervous system is the body's \_\_\_\_\_.
- The nervous system gathers and interprets \_\_\_\_\_.
- Your brain and spinal cord are the \_\_\_\_\_ nervous system.
- The \_\_\_\_\_ nervous system does NOT include the brain and spinal cord.
- The peripheral nervous system uses specialized structures called \_\_\_\_\_ to carry information.

**C) Answer any three (3) questions from the below. (All question contain 2 marks each) 6 marks**

i. What is one advantage and one disadvantage of using hydroelectric energy?

| Advantage | Disadvantage |
|-----------|--------------|
|           |              |

ii. List any two environmental strategies to help protect Earth's environment, and give a brief description of each.

1)-----  
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2)-----  
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iii. What is the job of the gallbladder? What does bile do?

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iv. How does acid precipitation form?

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v. What are two ways to help prevent spinal cord injuries?

1)-----  
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2)-----  
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vi. List any two ways in which humans can conserve natural resources and give an example of each.

|   |
|---|
| 1 |
| 2 |

**D) Data analysis.**

**3 marks**

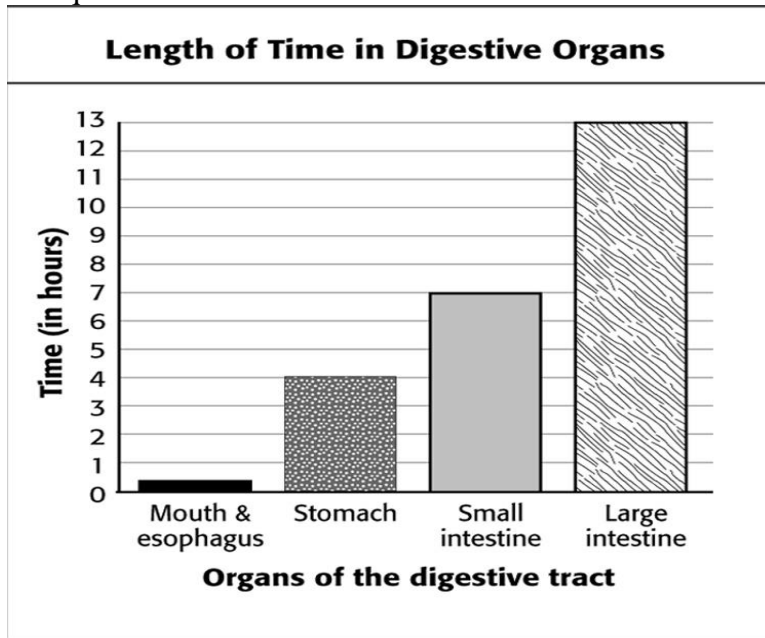
i) Read the table and answer question 1.

| Type            | Description  |
|-----------------|--|
| Calcium stone   | Made up of calcium that is not removed by kidneys          |
| Struvite stone  | Made up of magnesium and ammonia                           |
| Uric acid stone | Forms when there is too much acid in urine                 |
| Cystine stone   | Forms from cystine, a building block of muscles and nerves |

\_\_\_\_\_ 1. Meat can increase acidity within the body. Based on the table above, what type of kidney stone might develop in a person who eats a lot of meat?

- A. cystine stone
- B. struvite stone
- C. calcium stone
- D. uric acid stone

ii) The bar graph below shows how long the average meal spends in each portion of your digestive tract. Use the graph below to answer the questions 2&3.



2. In which part of your digestive tract does the food spend the longest amount of time?

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3. On average, how much longer does food stay in the small intestine than in the stomach?

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E) Label these diagrams 3.5 marks

