This is a Class 1 exam

Lebanon Evangelical School
for Boys and Girls
Loueizeh - Baabda

Stage Exam 03
FEB2023

Do NOT write in this box. Your MARK will be placed here.

Subject :	Life Science
Class :	7A, 7B, 7C and 7E
Teacher :	Mrs. Dina Geha
Duration :	1 hour

Please write your answers on a separate sheet of paper, NOT on the question sheet

Your name :		*Time taken to complete exam*
Your Class :		
Exam Room :		
How many sheets, including cover sheet :		

- Do not open this paper until the teacher in charge instructs you to do so.
- The most important thing to remember in taking an exam is NEVER PANIC.
- If you are caught cheating in this exam, you will be awarded zero for ALL exams that are taken on this day.

***I- Identify** the letter of the choice that best completes or answers the statement. (1pt. each)*

1. *Using the table below*, which body system is described in Column C?

A. circulatory system B. endocrine system C. digestive system D. skeletal system

2. *Using the table below*, which body system is described in Column D?

A. circulatory system B. endocrine system C. digestive system D. skeletal system

Main Functions of Human Systems

System A	System B	System C	System D
Transports nutrients to body cells	Absorbs nutrients	Provides protection for tissues and organs	Provides chemicals to regulate bone growth
Transports oxygen to body cells	Breaks down food into simple substances	Provides structure and frame for body	Maintains proper blood sugar level
Helps with removing wastes from cells	Converts food into energy	Produces new red blood cells	Helps to shape mood and feelings

3. The main function of the muscular system is the-

A. support of the body B. break down of food C. movement of the body D. removal of waste

4. What is the flexible rubbery tissue that helps cushion bones where they meet called?

A. ligaments B. cartilage C. tendons D. knee pads

5. A cook touches a hot stove and quickly moves his hand away. What are the two primary body systems that work together to produce this response?

A. Skin and endocrine systems B. Muscular and respiratory systems C. Nervous and muscular systems D. Skeletal and nervous systems

6. Involuntary muscle movement:

A. you must think to cause movement B. done without thinking, no conscious control C. signals are sent just to relax muscles D. works only while sleeping

7. We use nerves to detect information from our external environment.

A. true B. false

8. Smooth muscle tissue makes up blood vessels.

A. true B. false

*II- **Find** the right term for each statement below. (1pt. each)*

1. a small space across which impulses travel to move from one neuron to another
2. the system made up of the brain and spinal cord
3. the system made up of all the nerves outside the brain and spinal cord
4. the branch part of a neuron that receives messages and sends them to the cell body
5. the branch part of a neuron that transports messages away from the cell body
6. a nerve cell
7. a response caused by the spinal cord interpreting an impulse from sensory receptors
8. the part of the body made up of bundles of neurons that carry impulses from all parts of the body to the brain and from the brain to all parts of the body

*III- **Fill in the blanks** with the right term. (0.5 pt. each)*

A. The __1__ includes bones, ligaments, tendons, and cartilage.

It protects internal __2__, provides support, aids body movement, and stores __3__

a. The element __4__, which is required for healthy muscular and nervous systems, is stored in bones.

b. Your brain is protected by the __5__, which is one way bones protect organs.

c. The skeleton works with the __6__ to help the body move.

B. Almost half of your body mass is muscle cells, which make up the __7__ .

a. The type of muscle tissue that works with the skeletal system to help you move is the __8__ muscle.

b. __9__ connect muscles to bones.

c. The muscle in the heart is the __10__ muscle.

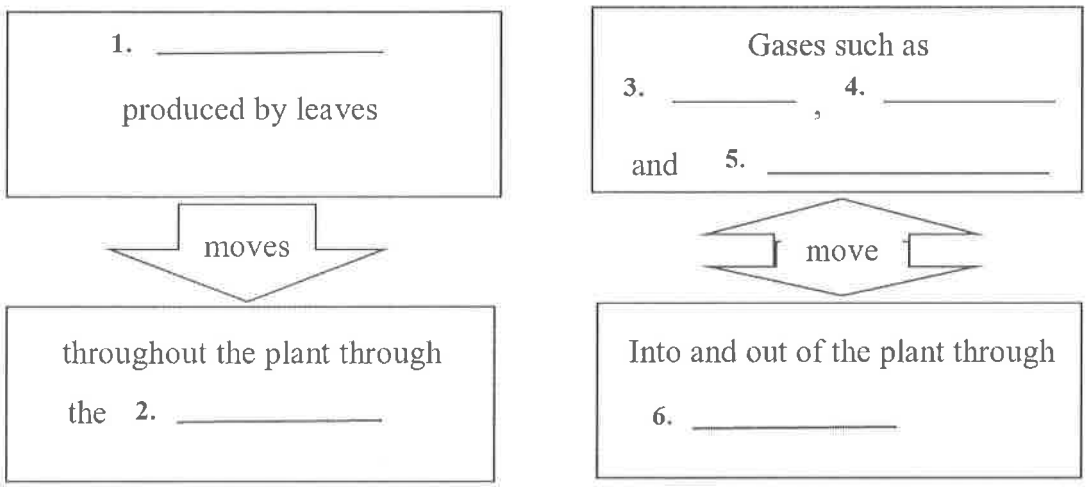
d. __11__ muscle tissue is found in internal organs.

C. The __12__ uses chemical signals called __13__ to communicate with other organ systems. This system works with other body systems to maintain __14__.

*IV- **Classify** each of the following as describing photosynthesis, or respiration. (1 pt. each)*

1. Energy released
2. Energy stored
3. Light energy, H_2O, and CO_2 at start
4. $C_6H_{12}O_6$ and O_2 at start
5. $C_6H_{12}O_6$ and O_2 at end
6. CO_2, H_2O, and energy at end
7. Takes place in all cells
8. Takes place in cells with chlorophyll

*V- **Relate** how other materials move through plants. Write the terms from 1 to 6 on your answer sheet. (1 pt. each)*



*VI- **Place** the following steps in order without re-writing the sentences. (2 pts)*

A. animals eat plants to get energy
B. plant absorbs sunlight
C. plant uses chemical energy to make organic compound (glucose)
D. light from the sun reaches Earth
E. plant converts sunlight to chemical energy

*VII- **Label** the following figures. (1 pt. each)*

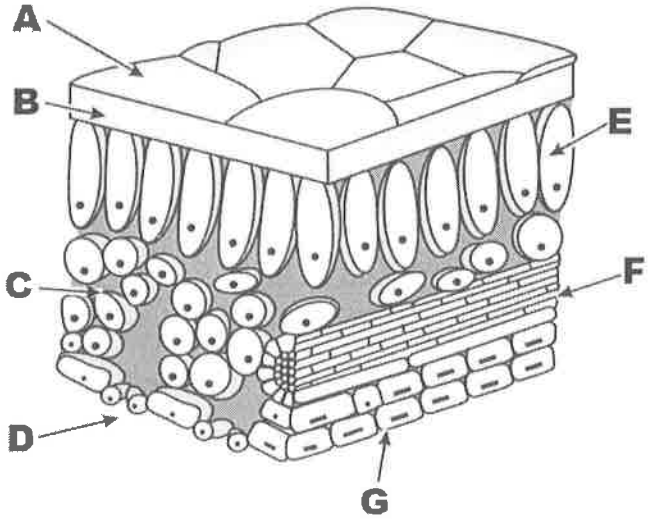


Fig 1

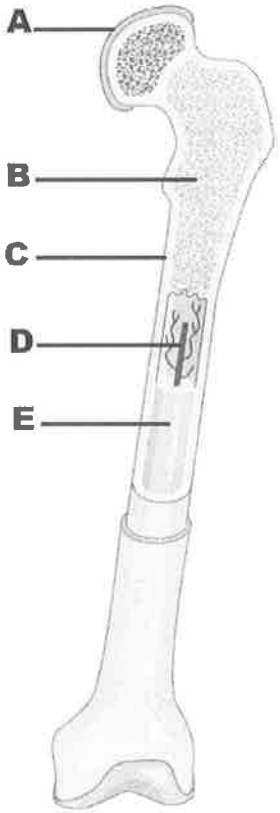


Fig 2

VIII- Short Answers

1- ***Hypothesize*** how an injury to the spinal cord might affect the ability of the nervous system to sense and respond to a change in the environment. *(2 pts)*

2- ***Predict*** the effect of a plant disease that destroys all of the chloroplasts in a plant. *(2 pts)*

3- ***Explain*** how plants are important to humans *(2 pts)*

SE03/2022 2023/ Life science / ~~7ABC~~E Class 1

I- Multiple choice (1 pt each)

1 - D
2 - B
3 - C
4 - B
5 - C
6 - B
7 - B
8 - A

II- find the right term (1 pt each)

1 - Synapse
2 - Central nervous system
3 - peripheral nervous system
4 - dendrites
5 - axon
6 - neuron
7 - reflex
8 - spinal cord

III- fill in the blanks (0.5 pt each)

1 - Skeletal System
2 - organs
3 - minerals
4 - Calcium
5 - Skull
6 - muscles/muscular system
7 - Muscular system
8 - Skeletal
9 - tendons
10 - Cardiac
11 - smooth
12 - endocrine system
13 - hormones
14 - homeostasis

IV- photosynthesis or Respiration (1 pt each)

1 - Respiration
2 - photosynthesis
3 - photosynthesis
4 - Respiration
5 - photosynthesis
6 - Respiration
7 - Respiration
8 - photosynthesis

V - Relate how materials move through plants (1pt. each)

1 - glucose / sugar
2 - phloem
3 - CO_2,
4 - H_2O
5 - O_2
6 - stomata

VI - Place the steps in order (2pts)

D, B, E, C, A

VII - Label the figure (1pt each)

figure 1
A - Cuticle
B - Upper epidermal cells
C - Spongy mesophyll cells
D - Stomata / Stoma
E - palisade mesophyll cells
F - Vascular tissue
G - Lower epidermal cells

figure 2
A - Cartilage
B - Spongy Bone
C - Compact Bone
D - Blood vessels / cappillaries
E - Bone Marrow

VIII - Short answers.

1 - The senses detect changes in the environment and send signals to the brain via the spinal cord to process the information and produce a response. If the spinal cord is injured, information between the peripheral nervous system and the brain will not occur effectively. (2)

2- The plants would no longer be able to carry on photosynthesis and would therefore die. (2)

3- plants provide us with food. the basic food for all organisms is produced by green plants. In the process of food production, Oxygen is released. This oxygen, which we obtain from the air we breathe, is essential to life. (2)