

Name: Course:

1. Indicate if the following sentences are true (T) or false (F):

- A dog is a unicellular organism.
- The nucleus of the cell directs all of the activities of the cell.
- Cells have a cytoplasm, a nucleus and a cell membrane.
- The cell membrane is a very thin material surrounded by the cytoplasm.

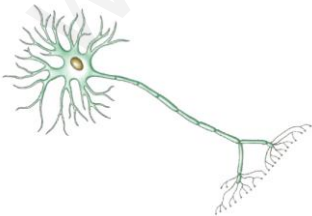
2. Match with arrows the words in the first column with its description in the second column:

Cell	A group of tissues that perform a specific function.
Tissue	A group of organs that perform a joint function.
Organ	It is the microscopic component that makes up all living things.
System	A group of cells with similar shape and function.

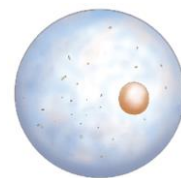
3. What are the three life processes carried out by a living thing?

1.
2.
3.

4. Write down the shape each of the following cells have:



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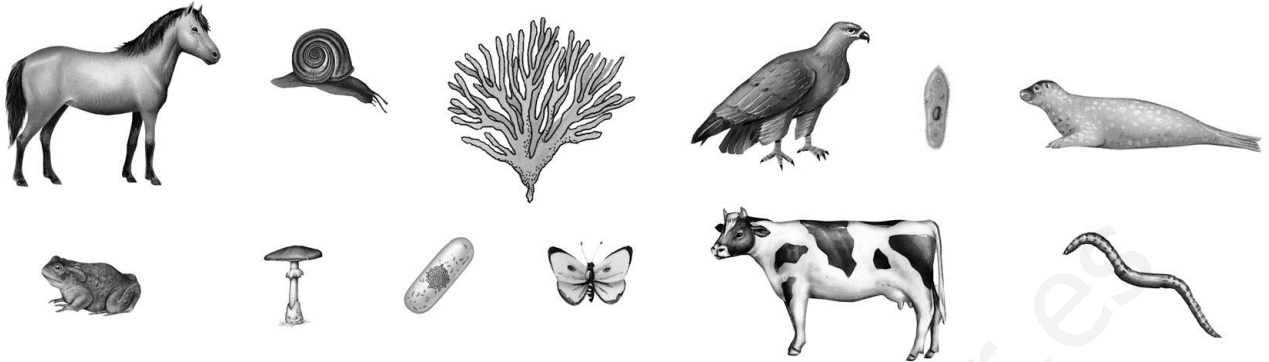
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1. Classify the following living things into either unicellular or multicellular:



- Unicellular:
- Multicellular:

2. Indicate which type of life process belong to the following actions:

- A dog smells its food:
- A frog lays eggs:
- A crocodile breathes air:
- A mouse runs away from a cat:
- A tiger eats a deer:

3. Indicate if the following sentences are true (T) or false (F):

- Muscle is a tissue that is completely formed by muscle cells.
- Epithelial is a tissue that is formed by different organs.
- The surface of the skin is formed of epithelial tissue.
- An organ is formed by several types of units.



4. Complete the following statements about the characteristics of cells:

- The gel-like material that fills the inside of the cell is called the
- The function of the nucleus is the activities of the cell.
- The cell membrane allows the of substances with the exterior.
- To observe cells we often use an instrument called the

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1. Indicate if the following sentences are true (T) or false (F):

- A dermatologist is a physician who takes care of problems with the eyes.
- You have to clean your ears when you shower and dry them thoroughly afterwards.
- If you are going to sunbathe, you have to wear a high factor sun cream.
- To look after your tongue avoid very spicy or salty foods.

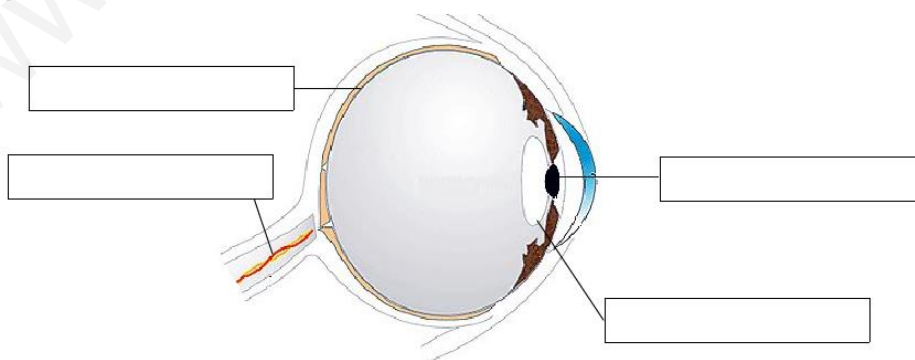
2. Match with arrows the words in the first column with a phrase from the second column:

Eardrum	Contains receptors that respond to temperature.
Nose	Group of sensory receptors located on the tongue.
Skin	Vibrates with sound waves.
Taste bud	Contains smell receptors.

3. Indicate which part of the nervous system performs each of these functions:

- Connects the central nervous system with all organs of the body:
- Decides what to do in the case of voluntary actions:

4. Write down the names of the parts of the eye using these words: lens, pupil, retina and optic nerve.



5. When we touch a very hot stove, we automatically withdraw our hand.

- What type of action is this?:
- Why?

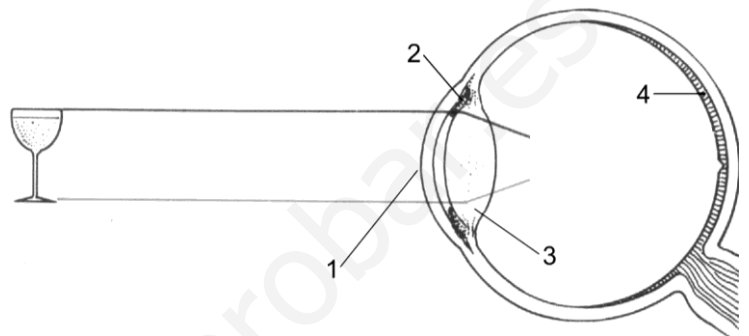
Name: Course:

1. What is the function of the following parts of the sense organs?

- Lens:
- Cochlea:

2. Write down the name of the parts of the eye that are numbered:

- 1:
- 2:
- 3:
- 4:



Draw the image formed in the eye.

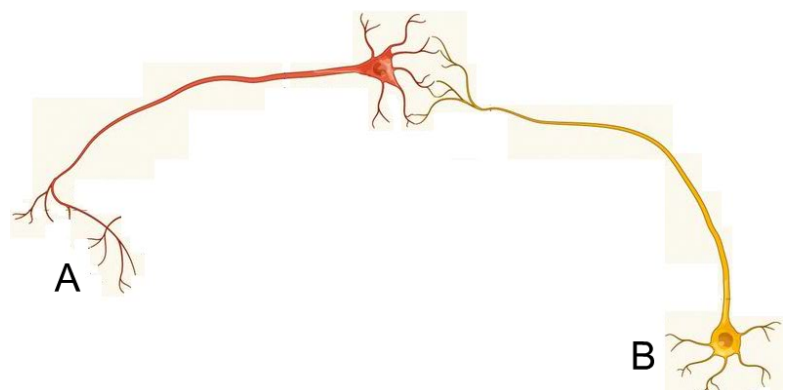
3. Indicate if the following sentences are true (T) or false (F):

- Sensory receptors are the organs that capture stimuli.
- The skin has receptors for touch, temperature and pain.
- The taste of umami is produced by both salt and sugar.
- There are four types of olfactory receptors.



4. Indicate with an arrow the direction in which the nerve signal moves:

- Which of these neurons could be a sense receptor?
-
- Why?
-
-



5. Explain why a person, who has suffered a blow to the back, cannot move their leg:

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Name: Course:

1. Indicate if the following sentences are true (T) or false (F):

- Cough, pain and fever are all symptoms of diseases.
- Bacteria have to ability to cause infectious diseases.
- Non-infectious diseases are caused by microorganisms.
- Infectious diseases are contagious.



2. Match with arrows the words in the first column with a phrase from the second column:

Vaccination	Replacing an organ or tissue for another.
Antibiotic	Medicines that contain microorganisms.
Antitoxin	A substance that prevents the growth of microorganisms.
Transplant	Medicine containing defenses against microorganisms.

3. Complete the sentences with the following words: viruses, bacteria, infectious, fungus.

- Antibiotics are produced by both and also by
- and protozoa are both able to cause..... diseases.

4. Indicate for what we use each of these first aid techniques, writing the following words: bleeding, burn, wound.

- It should be cleaned with soap and water using a gauze:
- You have to cover it and press on it in order to stop the flow of blood:
- You have to run cold water over it and not touch it:

5. Name three risk factors for health:

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Which of these factors can lead to obesity?

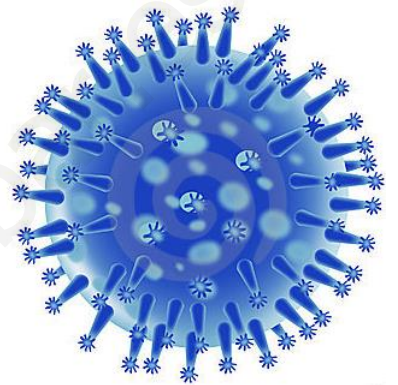
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1. Write down a risk factor that can cause the following diseases:

- Lung cancer:
- Depression:

2. Match with arrows each microorganism in the first column with the disease in the second column:

Bacteria	Flu
Virus	Malaria
Protozoa	Athlete's foot
Fungi	Tetanus



3. Indicate if the following sentences are true (T) or false (F):

- Vaccines contain defenses against microorganisms.
- Antibiotics can help to cure diseases caused by viruses.
- Antitoxins are used with people who are not vaccinated.
- Surgery is usually performed in an operating room.



4. Indicate which of these materials are used for in first-aid treatments:

- A gauze:
- An antiseptic:
- Water with baking soda and salt:
- A tourniquet:

5. What kind of disease can we get...

- If we drink water that is not safe to drink?
- If we don't follow a balanced diet?

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1. Indicate if the following sentences are true (T) or false (F):

- The flowering plants form flowers.
- Ferns have roots, stem and leaves.
- Mosses have roots, stems and leaves.
- Plants carry out photosynthesis.

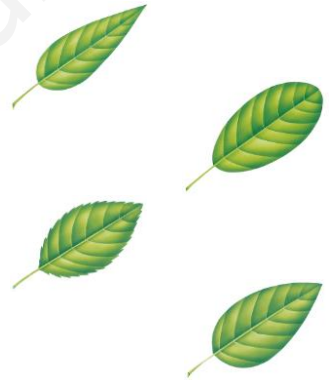


2. Using arrows, match each kind of leaf in the first column with its classification type in the second column and with the corresponding image.

- ① Ovate
- ② Serrate
- ③ Entire
- ④ Lanceolate

Classification by shape

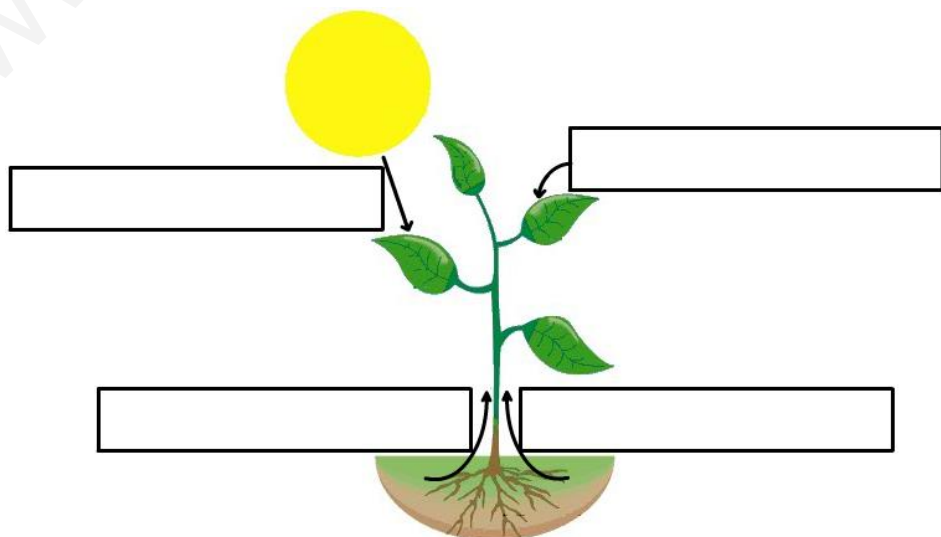
Classification by edge



3. Complete the following sentences with the following words: food, water, mineral salts.

- The raw sap contains and
- The elaborated sap contains and

4. Write down what the plant needs for photosynthesis:



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1. Complete the following table about the transport system of plants:

	Xylem vessels	Phloem tubes
What sap does it transport?		
Does it transport water?		
Does it transport mineral salts?		
Does it transport organic matter?		

2. Match with arrows each feature with a group of plants:

The stems are horizontal and slightly buried

The false stems are very simple

They have large leaves with very divided edges

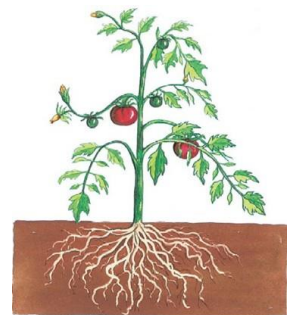
They do not have true leaves

Mosses

Ferns

3. Indicate if the following sentences are true (T) or false (F):

- The primary root is always greater than the secondary roots.
- The petiole is the part of the leaf that connects the blade and the underside.
- The oak is an evergreen tree.
- A lanceolate leaf has a serrated edge.



4. Plants can get energy in two different ways. Complete the sentences which follow:

- During photosynthesis, plants produce a gas called
- provides energy to plants when they have no light.
- During the night, plants produce a gas called
- The gases enter and leave the leaf through holes called
- The part of the plant that makes the organic material is called the

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1. Indicate if the following sentences are true (T) or false (F):

- There is a competitive relationship between a lion and its prey.
- The pine tree is a primary consumer of the ecosystem.
- The principal decomposers in an ecosystem are bacteria and fungi.
- The habitat is the place where an organism lives.



2. Match with arrows each sentence in the first column with a word in the second column:

One species of tortoises that live on an island

The different animals that live in a valley

The animals and plants that live in a lake

The trout that live in a river

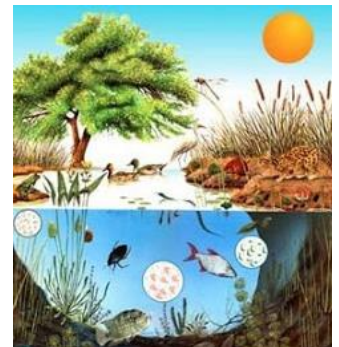
Community

Population

3. Draw a food chain below with the following organisms: snake, grasshopper grass and frog.

4. Name four elements of the physical environment that are characteristic of the ecosystem shown:

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-
-
-



5. Write down two human actions that modify ecosystems:

-
-

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1. Draw a food web with the following living things: a shark that eats tuna, a sardine that eats seaweed, a squid that eats crabs, a tuna that eats sardines, a crab that eats seaweed, a shark that eats squid.

2. Match with arrows each sentence to a group of living things:

They feed on the remains of living things	Producers
They are able to feed directly on plants	Primary consumers
They are able to eat herbivores	Secondary consumers
Living things that are able to make their own food	Decomposers

3. Indicate if the following sentences are true (T) or false (F):

- An ecosystem is a biological community.
- Oxygen forms part of the physical environment of a living thing.
- The meadow is an ecosystem where the grass predominates.
- The dragon of Gran Canaria is an endangered reptile.



4. Write down the type of relationship between the following living things:

- Two male pigeons fighting over a female:
- A group of lions that gather to hunt:
- A mosquito and the person that it feeds on by biting:
- An owl and the mouse that it is hunting:

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1. Indicate if the following sentences are true (T) or false (F):

- Melting is the step from solid to liquid.
- Evaporation is the step from liquid to solid.
- Oxidation is a chemical change in matter involving oxygen.
- Hardness is a property that shows the resistance of a material to break.

2. Match with arrows each energy source in the first column with a type of energy in the second column:

Natural gas

Wind

Water

Oil

Renewable source of energy

Non-renewable source of energy



3. Search for seven forms of energy in this puzzle. Then write them down.

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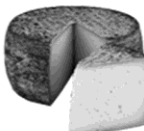
Q	U	M	I	R	O	U	A	R	R	I
L	E	R	U	L	I	G	H	T	R	T
E	T	R	Q	A	I	M	T	C	A	E
T	R	E	B	C	L	E	R	A	V	C
C	L	A	C	I	M	E	H	C	U	I
S	R	R	T	R	E	R	C	I	R	N
O	O	E	R	T	H	E	R	M	A	L
U	N	E	S	C	U	R	L	E	R	T
N	U	C	L	E	A	R	E	R	F	I
D	S	E	T	L	U	L	O	E	S	N
B	K	I	N	E	T	I	C	F	R	A


4. Express the mass in kilograms and volume in liters:


 125 g →

 300 mL →

 2300 g →

 1230 g →

 75 mL →

 600 mL →

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1. Make a list of four objects in the class, then say what materials they are made from and what properties these materials have:

Object	Material	Properties

2. Find and match with arrows each source of energy with the type that it corresponds to:

Coal		Solar
Wind	Renewable	Biomass
Water	Non renewable	Oil
Natural gas		Geothermal

3. Indicate if the following sentences are true (T) or false (F):

- Combustion is a type of evaporation.
- Copper is a good thermal conductor.
- Graphene is the thinnest and most resistant material.
- With a diamond you can scratch glass.

4. Write down the three different effects that a force can have on the motion of an object using different examples from the book:

-

-

-

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1. Indicate if the following sentences are true (T) or false (F):

- The lever is a compound machine used to lift weights with little effort.
- Compound machines have many parts and include some simple machines.
- Tools are very useful for making things out of wood or metal.
- The electric drill is a mechanical tool.

2. Match with arrows each machine in the first column with a type of machine in the second column:

Lever

Bicycle

Gears

Pulley

Simple machine

Compound machine



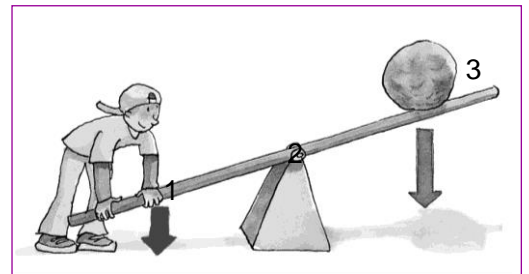
3. Write down the name of the following tools:



- 1:
- 2:
- 3:
- 4:

4. This drawing shows a lever. Name the three characteristic elements of a lever:

- 1.
- 2.
- 3.

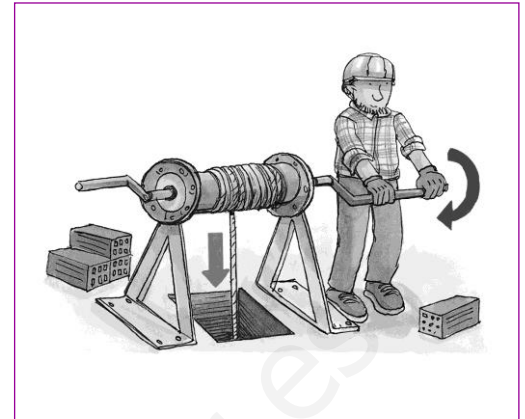


5. What advantages do the following scientific and technological advances have?

- An ultrasound:
- A tablet:

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1. Look at the picture that represents a winch and answer the following questions:



- What type of machine is it?
-
- Name the characteristic elements in the picture.
- What use does it have?
-

2. Match with arrows each sentence in the first column with the machine from the second column:

- To overcome uneven slopes easily
- Used to lift weights
- Used to move weights
- Used to raise and lower objects

- winch
- lever
- inclined plane
- pulley

3. Indicate if the following sentences are true (T) or false (F):

- In a third-class lever the power is between the fulcrum and the load.
- The winch has a wheel with a hole through which passes a rope.
- A screw is a simple machine of the inclined plane type.
- The computer's hard drive stores data and programs.

4. Write down the names of the following machines or tools:

- A mechanical tool that allows you to make holes:
- A hand tool that allows you to hammer a nail:
- A mechanical tool that can be used to cut wood:
- A hand tool that allows you to be able to cut meat: