

REVISION BOOKLET
END OF SEMESTER EXAMS
GRADE 4
SCIENCE

NAME:

DATE:

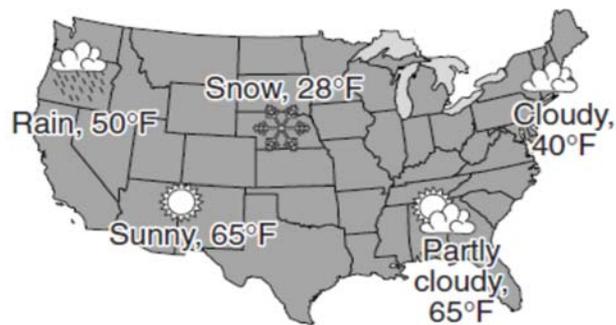
CLASS: 4 ()

Q1. Choose the best answer for each question.

1. Sleet, rain and snow are form of

- a. Evaporation
- b. Condensation
- c. Precipitation
- d. None of the above

2. Which information is contained on this map of United states.



- a. State capitals
- b. Mountains
- c. Weather conditions
- d. Animal populations

3. Which will change the environment quickly?

- a. Flood
- b. Succession
- c. Climate change
- d. None of the above

4. Which of these muscles are voluntary?

- a. Skeletal
- b. Heart
- c. Breathing
- d. Digestion

5. How much of the Earth's water is fresh?

- a. 3%
- b. 10%
- c. 97%
- d. 2%

6. Which ones are the organs of respiratory system?

- a. Trachea, stomach
- b. Lungs, Trachea
- c. Stomach, small intestine
- d. Brain, lungs

7. What is the main job of circulatory system?

- a. To help digest the food
- b. To provide oxygen and nutrient through blood to all parts of body
- c. To control all body functions
- d. To provide support

8. What is the main function of muscular system?

- a. To provide support
- b. To move bones
- c. To breath
- d. To pump blood

9. Succession is a _____ change

- a. Gradual
- b. Fast
- c. Very slow
- d. None

10. Meteorologist is the scientist that study

- a. Human body
- b. Weather
- c. Fossils
- d. Animals

Q2. Fill in the blanks using the given words.

Skull, Extinct, Vaccines, Trachea, rain, ribs, immune system, host , femur, respiratory , condensation, small intestine, anemometer, front, bicep and triceps, air mass, competition, brain , carbon dioxide, heart .

1. _____ is the tallest bone in the body.
2. _____ animals are the ones that cannot be found on Earth any more.
3. _____ protects the brain.
4. _____ is the system that fills the blood with oxygen.
5. We breath in oxygen and give out _____.
6. The process of changing water vapor into liquid again is called as _____.
7. _____ is the organ that pumps the blood to the whole body.
8. _____ are given as prevention from diseases.
9. _____ is the system that helps us fight from germs.
10. _____ is the pipe that carries air from nose to the lungs.
11. Parasite harms the _____.
12. Most digestion takes place in _____.
13. The pair of muscles works together in arm are called _____.
14. The _____ protect the lungs and heart.
15. Instrument to measure wind speed is called _____.
16. Rain gauge is used to measure amount of _____.
17. Mass of air with the same temperature and humidity is called _____.
18. Where two air masses meet is called as _____.
19. _____ is when two or more species must use the same resource.
20. The nervous system is made up of _____, spinal cord and nerves.

Q3. State true or false for each of the statement.

No	Statement	True or false
1.	Forest fire changes environment quickly	
2.	Fossils give no information about past.	
3.	Skeletal system protects the organs.	
4.	Succession happens very quickly.	
5.	Muscles does not work in pair.	
6.	Sun's energy control water cycle.	
7.	Air passes to lungs and then it enters trachea.	
8.	Animals avoid competition by living in groups and hunting at different times.	
9.	Strip mining is harmful for the environment.	
10.	Anemometer measure wind speed.	
11.	Microorganisms can be seen with the eyes.	
12.	Pathogens are organisms that cause diseases.	
13.	Some bacteria are helpful while some are harmful.	
14.	Over 92% of the Earth water is in oceans.	
15.	Only 1% water on Earth is fit for drinking.	
16.	Oceans are less salty if many rivers are flowing in the ocean.	
17.	2% of the freshwater is frozen in icecaps and glaciers.	
18.	Digestion begins in the mouth.	
19.	Most digestion takes place in large intestine.	
20.	Function of circulatory system is to provide oxygen and nutrient to the whole body.	

Q4. Match the word with its definition.

Answer	Word	Definition
	1. Competition	a. gradual change from one community of organisms to another.
	2. Parasite	b. when two or more species in an ecosystem must use the same limited resources.
	3. Host	c. an entire species is extinct if it has died out and is gone forever
	4. Hazardous waste	d. basic working unit of the nervous system or the nerve cell
	5. Succession	e. an organism that lives on or in another organism, helping itself but hurting the other organism.
	6. Extinct	f. a species is endangered if it is in danger of becoming extinct
	7. Endangered	g. substances that are very harmful to humans and other organisms.
	8. Voluntary muscles	h. organisms that cause disease
	9. Involuntary muscles	i. an organism that is harmed by a parasite
	10. Neuron	j. muscles that you cannot control
	11. Pathogens	k. muscles that you control
	12. Infectious diseases	l. a disease that can pass from one organism to another.
	13. Vaccine	m. the process of changing liquid water to water vapor
	14. Evaporation	n. any form of water that falls to Earth
	15. Condensation	o. the amount of water vapor in the air
	16. Precipitation	p. the process of water vapor becoming liquid water when it cools.
	17. Humidity	q. the area where two different air masses meet
	18. Front	r. scientists who study and measure weather conditions
	19. Digestion	s. an injection of dead or weakened pathogens that causes you to be immune to a disease.
	20. Meteorologist	t. Process by which food is made available to the cell.

Q5. Differentiate between the following:

Voluntary muscles	Involuntary muscles

Arteries	Veins

Endangered animal	Extinct animal

Digestive system	Respiratory system

Q6. Define the following terms:

a. Air mass:

b. Humidity:

c. Front:

d. Meteorologist:

e. Weather forecast

f. Global warming:

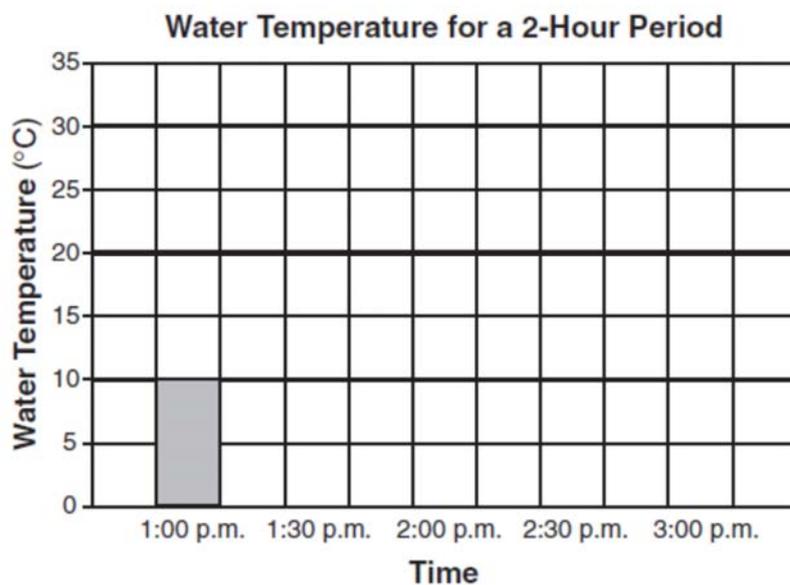
Q7.

A student filled a cup with water and placed it in front of a window on a sunny day. She measured the temperature of the water every 30 minutes for 2 hours. The data she collected are shown below.

Data Table

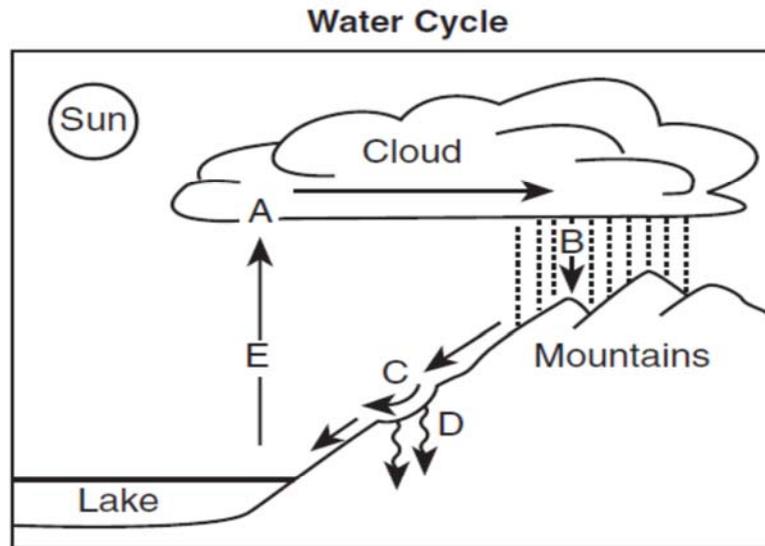
Time	Water Temperature
1:00 p.m.	10°C
1:30 p.m.	20°C
2:00 p.m.	26°C
2:30 p.m.	28°C
3:00 p.m.	30°C

Complete the bar graph below to show the student's data. The bar for 1:00 p.m. is shown as an example. [2]



Q8.

A diagram of the water cycle is shown below. The letters *A* through *E* represent five different processes taking place.



In the chart below, write the letter shown in the diagram that matches each process. [2]

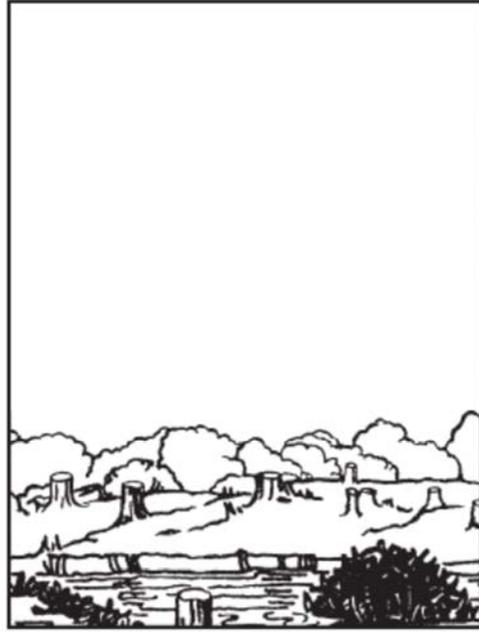
Process	Letter from Diagram
condensation	
evaporation	
groundwater	
precipitation	
runoff	

Q9. What is a parasite? Explain its relationship with the host?

Q10. The diagrams show the same piece of land in the summer of 2002 and the summer of 2003 after the trees were cut down.



Summer 2002



Summer 2003

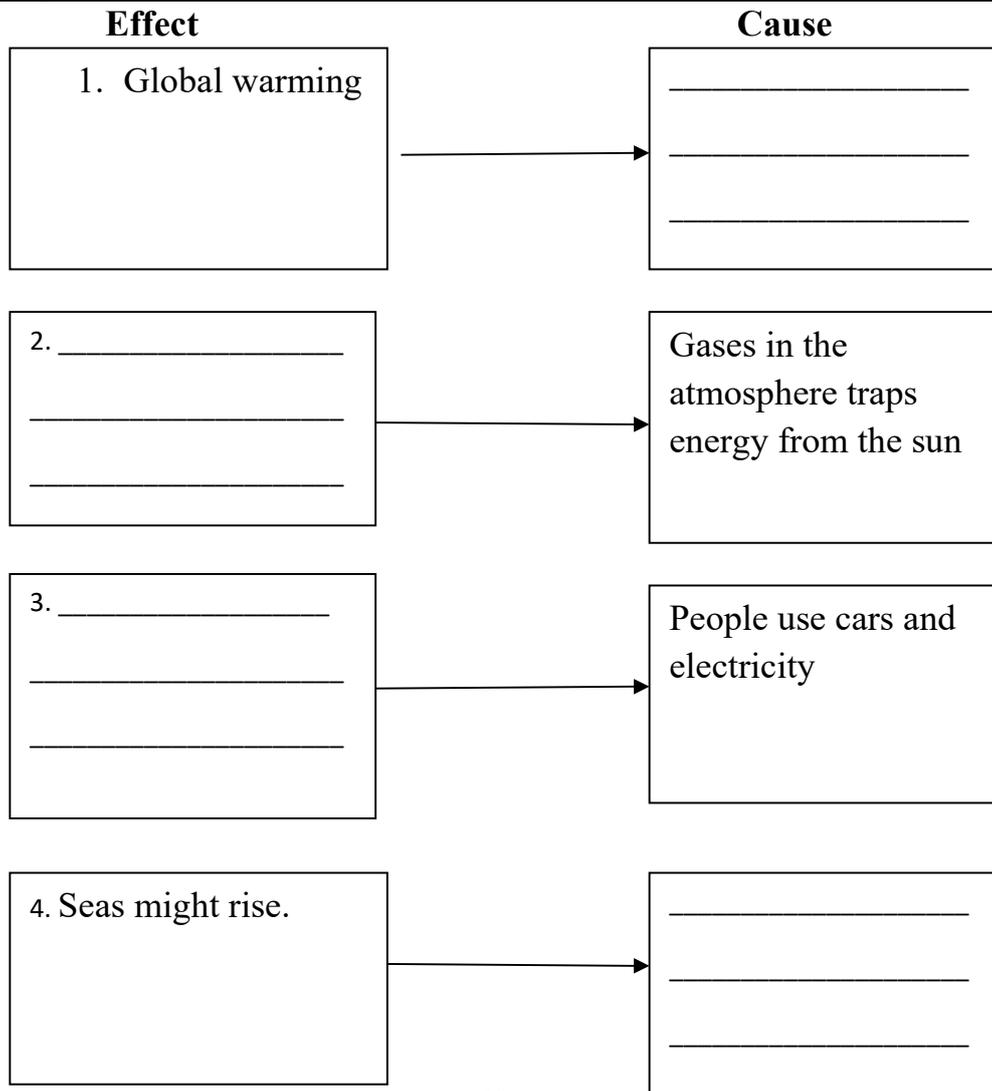
- a. Describe one negative thing that might result from cutting down the trees.

Q11. A scientist studied a population of Rabbits in an area. One year later Half of the Rabbit population had moved to another area. Identify two reasons that might have caused the Rabbit to move.

Q12. Identify the cause and effect by reading the text.

Global Warming

The increase in Earth's average temperature is called global warming. Scientists say that the greenhouse effect is one cause of global warming. Earth heats up as gases in the atmosphere trap energy from the Sun. People produce some of these gases. They use cars and electricity. The fuels burned to run cars and produce electricity emit gases into the air. Global warming can lead to changes in Earth's climate. In turn, these changes may affect ecosystems. They may result in higher sea levels. They might cause droughts. This could reduce the amount of food that farmers can grow. This could lead to famine (no food and water available).



Q13. Identify the following human body systems and write their functions.

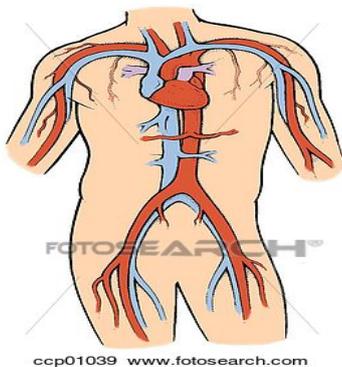
1.



Body system : _____

Function: _____

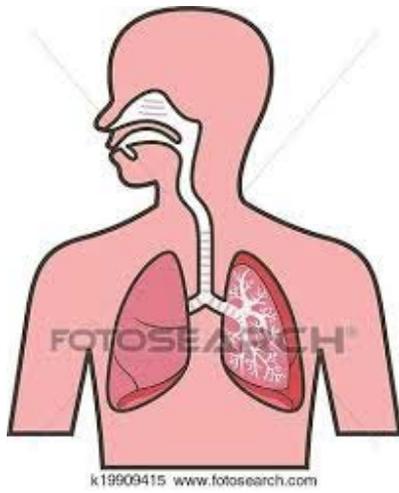
2.



Body system : _____

Function: _____

3.



Body system:

Function:

4.



Body system:

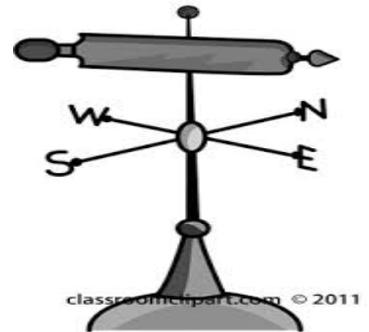
Function:

Q14. How does circulatory and digestive system works together?

Q15. Identify the following weather measuring instrument and write their function.

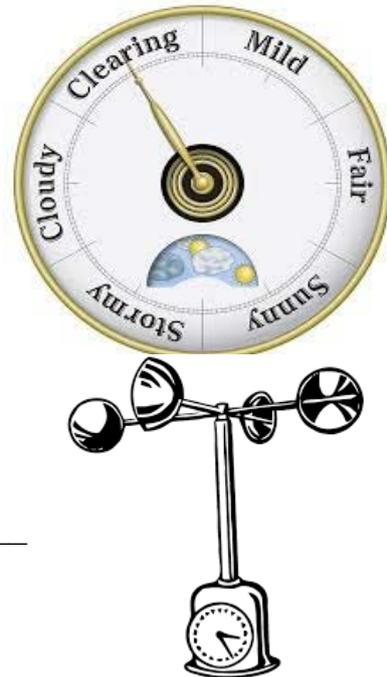
1. Name:

Function:



2. Name:

Function:

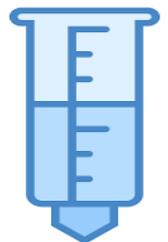


3. Name:

Function:

4. Name:

Function:



Q16. Give example of the following.

a. The bone that protects the lungs and heart

b. An animal that has become extinct

c. A human body system that controls all the functions of the body

d. Tallest/ longest bone in the body

e. Pair of muscles in the arm

f. A system that moves the bones

g. Pumping organ in the human body

h. Wind pipe that carries air to the lungs

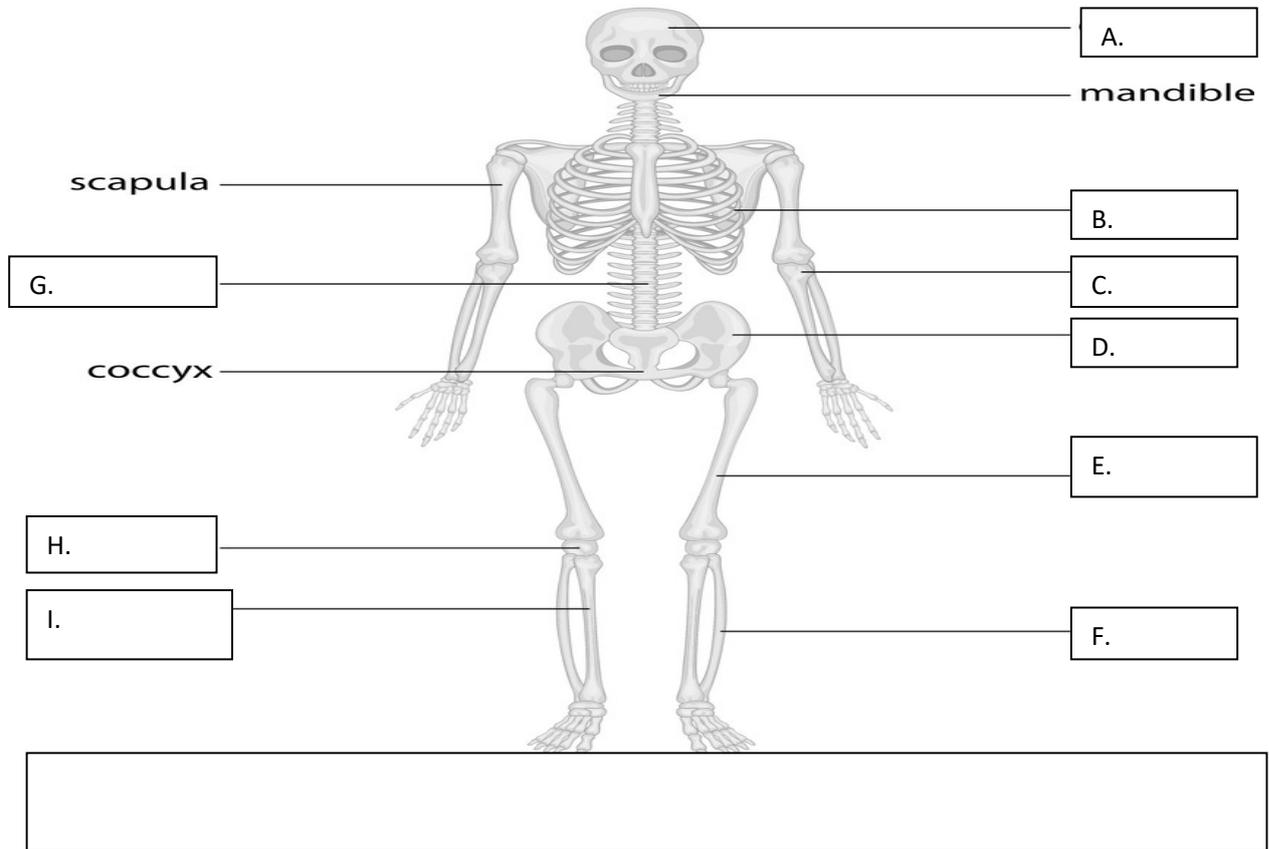
i. A way by which animal reduce competition _____

Q17. Describe the path of the blood through body.

Q18. Suggest ways to protect the Earth from the dangers of global warming?

Q19. Look at the diagram carefully and answer the following questions.

Human Skeletal System



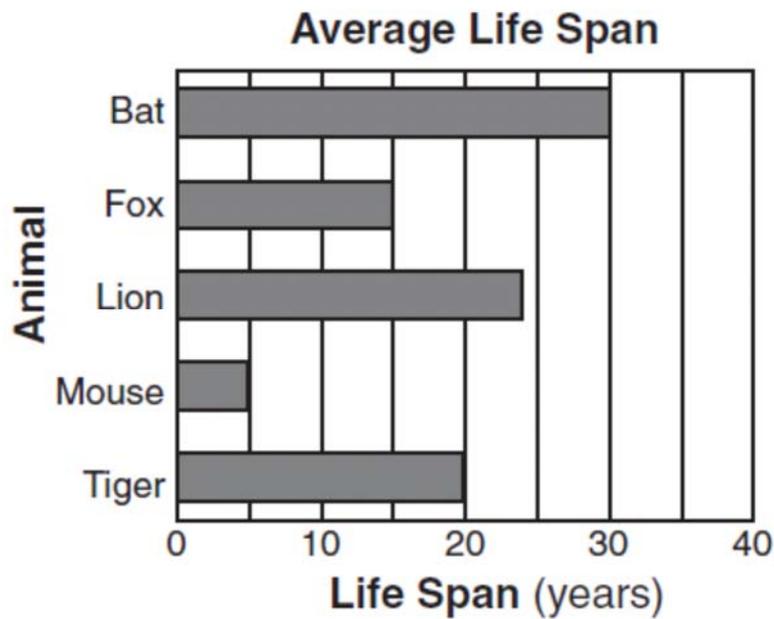
1. Which system is shown in the diagram above?

2. Which is the tallest bone in the body?

3. Which bone protects the brain?

4. How is this body system helpful to the human body?

Q20. The bar graph shows the average life span of five different animals.



a. Which animal has the shortest life span?

b. Which animal has life span more than mouse but less than Tiger?

c. How much longer is the life span of Bat than the life span of fox?

d. Even though the life span of Lions is long but recently they have become endangered. What do you think is the reason Lions are becoming endangered?

e. How can we protect animals from becoming extinct?

Q21. Use the table below to answer the questions. [0.5]

4th Grader favorite subject

Subject	Number of students
Math	25
Science	50
English	10
Arabic	15

Hundreds 4th graders were asked, “What is your favorite subject?” Their responses were recorded in the table.

a. Write one conclusion about the favorite subject of the 4th Graders?

b. Give one fact that supports that conclusion?

Q22. Use the information below to answer the question.

Animals

T-REX
DODO BIRD
STEGASAURUS
PASSENGER PIGEONS

A student made a list of some animals.

a. Describe one similarity between these animals?

ANSWER KEY

<p>Q1:</p> <ol style="list-style-type: none">1. C2. C3. A4. A5. A6. B7. B8. B9. A10. B	<p>Q2</p> <ol style="list-style-type: none">1. Femur2. Extinct3. Skull4. Respiratory system5. Carbon dioxide6. Condensation7. Heart8. Vaccines9. Immune system10. Trachea11. Host12. Small intestine13. Bicep and Triceps14. Ribs15. Anemometer16. Rain17. Air mass18. Front19. Competition20. Brain
<p>Q3.</p> <ol style="list-style-type: none">1. T2. F3. T4. F5. T6. T7. F8. T9. T10. T11. F12. T13. T14. F15. T16. T17. T18. T19. F20. T	<p>Q4:</p> <ol style="list-style-type: none">1. B2. E3. I4. G5. A6. C7. F8. K9. J10. D11. H12. L13. S14. M15. P16. N17. O18. Q19. T20. R

Q5. Differentiate between

Voluntary muscles	Involuntary muscles
Muscles that are in our control	Muscles that are not in our control.
Eg. Skeletal muscles	Eg. Muscles on heart, stomach

Arteries	Veins
Carry oxygen rich blood from heart to the body.	Carry oxygen poor blood from body to heart

Endangered animals	Extinct animals
Animals that may soon become extinct.	Animals that have disappeared from the Earth and cannot be found any more.
Ex. Panda	Ex. Dinosaurs

Digestive system	Respiratory system
It's an organ system that breaks the food into simpler form.	It's an organ system that fills the blood with oxygen.

Q6.a. **Air mass** : Air mass is a huge body of air above an area with same temperature and humidity.

b. **Humidity**: Amount of moisture in the air.

c. **Front**: A place where two air masses meet.

d. **Meteorologist**: A scientist who study and measure weather conditions.

e. **Weather forecast**: Is prediction of what weather will be like for the next few days.

f. **Global warming**: Global warming is heating up of the Earth due to polluted gases in the atmosphere that traps sun's heat more which result in rising temperatures.

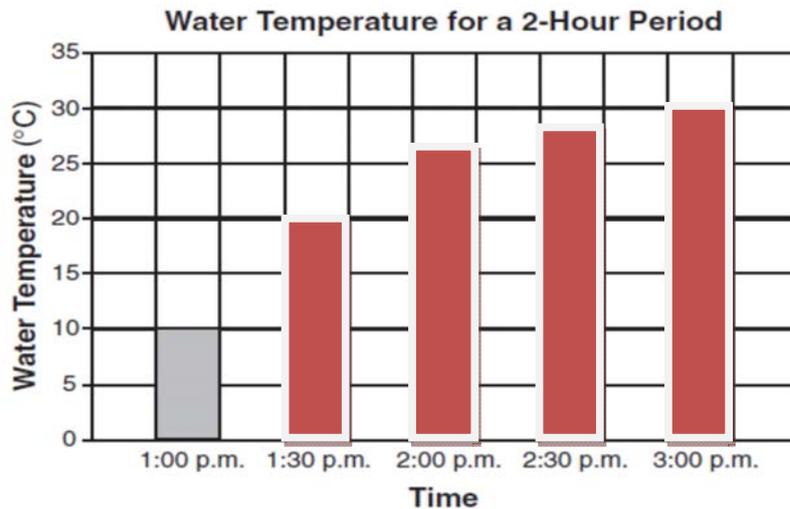
Q7.

A student filled a cup with water and placed it in front of a window on a sunny day. She measured the temperature of the water every 30 minutes for 2 hours. The data she collected are shown below.

Data Table

Time	Water Temperature
1:00 p.m.	10°C
1:30 p.m.	20°C
2:00 p.m.	26°C
2:30 p.m.	28°C
3:00 p.m.	30°C

Complete the bar graph below to show the student's data. The bar for 1:00 p.m. is shown as an example. [2]



Q8.

Process	Letter from the diagram
Condensation	A
Evaporation	E
Ground water	B

Precipitation	D
Run off	C

Q9. Parasite is an organism that live in or on another organism called host.
Parasite always harm the host.

Q10. The birds and animals living on the trees will lose their habitat.

Q11. Rabbit might have moved due to

- a. Lack of food
- b. Animals hunting them

Q12. 1. Cause: Green house effect is one of the cause of global warming

2. Effect: Earth heats up

3. Effect: The fuels burned to run cars and produce electricity emit gases into the air.

4. Global warming can lead to changes in Earth's climate.

Q13.

1. Name: Nervous system

Function: To control all the functions of the body

2. Name: Circulatory system

Function: To provide oxygen and nutrients to all the body by circulating blood.

3. Name: Respiratory system

Function: To fill blood with oxygen.

4. Name: Digestive system

Function: To break down food into simpler substance.

Q14. Digestive system break down food into simpler substance. The circulatory system circulate the nutrients from this digested food to the whole body.

Q15.

1. Name: Weather vane

Function: To tell the direction of wind.

2. Name: Barometer

Q20

- a. Mouse
- b. Fox
- c. 15 Years
- d. People hunting them and destroying their habitats
- e. Stop hunting the animals/ protect their habitats

Q21.

- a. Science is the most favorite season of 4th Graders
- b. Most of the students (50) like science.

Q22. All of the animals are extinct.