

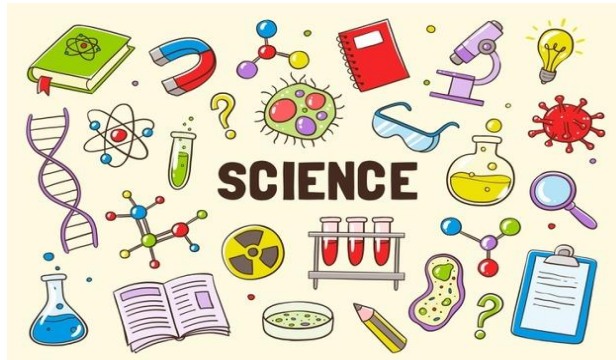
District Public School & College Depalpur

Summer vacation assignment

First semester

(Session: 2020-21)

Subject: Science



Class 6th

Student's name: _____

Roll no: _____

Section: _____

Guide lines for parents:

- The designed summer pack is fortnightly.
- The Students will have to follow the syllabus break up give
- The whole summer pack is designed on the same pattern.
- First day student will get understanding regarding lesson(via text and video lecture
- Very next day he is assigned a task related to the previous lecture
- Video lectures are given for each topic to enable the student understand the lesson more clearly
- Parent should ensure the timely completion of assigned task on each day
- **Table of content:**

Date	Topics	Tutor web links
18-06-20	Covid-19	https://youtu.be/CKzs3EcExmo
19-06-20	Unit#01 Introduction to cells	https://youtu.be/st7TFgO7sWY
22-06-20	Unit#01 Structure of plant cells	https://youtu.be/fJOo5Uf5IZw
24-06-20	Unit#01 Structure of animal cells	https://youtu.be/ZkMGba7GCQc
26-06-20	Unit#01 Specialized plant cells	https://youtu.be/1b4Ptsi113w
29-06-20	Unit#01 Specialized animal cells	https://youtu.be/BgmVgzyUVUU
01-07-20	Unit#01 Unicellular and multicellular organisms	https://youtu.be/5RJD-CHoa7Q
03-07-20	Unit#01 Tissues	https://youtu.be/UWnbDQ4Z5CU

Parents Sign: _____

Date: 18th June, 2020

Day: Thursday

Covid-19

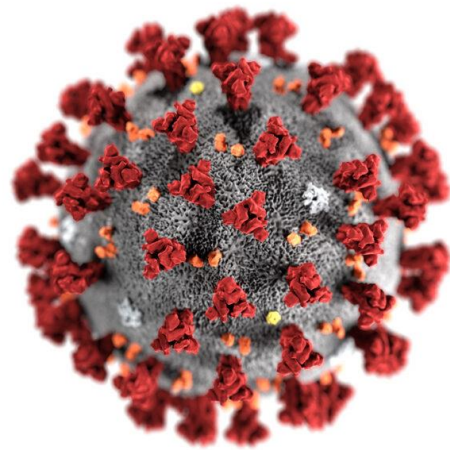
Topic: To make students aware of COVID-19

Tutor web link:

First understand this lecture

<https://youtu.be/CKzs3EcExmo>

It's very clear that we have a widespread outbreak of COVID-19 and we all have to limit our movement and avoid gatherings to prevent spreading this further. We need to do a coordinated widespread community response in limiting and reduce the spread of the disease.



➤ Symptoms of infection:

Most common symptoms:

- Fever
- Dry cough
- Tiredness

Serious symptoms:

- Difficulty breathing or shortness of breath
- Chest pain or pressure
- Loss of speech or movement

Preventions:

- keep social distance
- keep social distance
- Do not drink cold water

Parents Sign: _____



Activity:

- What you can do if you have symptoms of COVID-19?

Answer

- How does corona virus disease spread?

Answer

- What are symptoms of covid-19?

Answer

- Explain how the social distancing is helpful to avoid the epidemic disease?

Parents Sign: _____

Date: 19th June, 2020

Day: Friday

Unit# 01 Cells tissues and organs

Topic#01 Introduction to cells

Book page no# 2

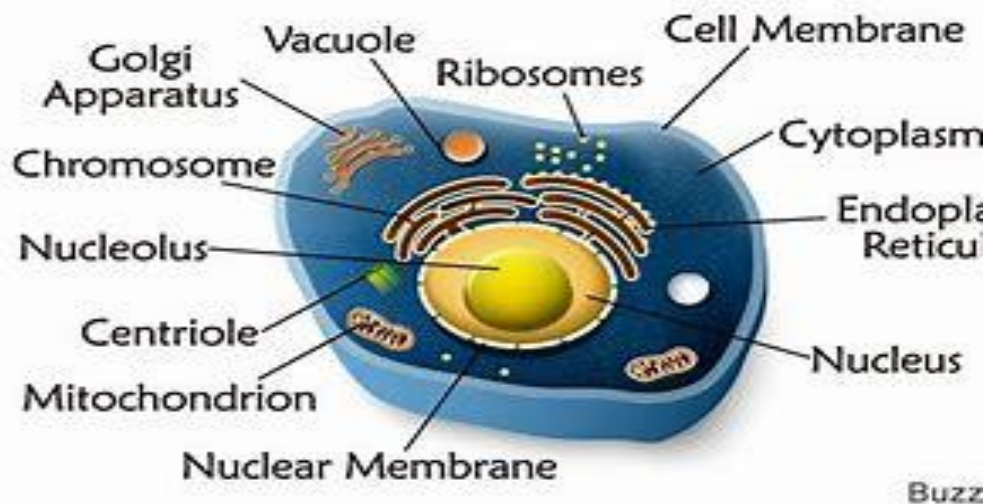
First Understand this topic from the tutor web link is given below

<https://youtu.be/st7TFgO7sWY>

- All organisms are made up of tiny units called **cells**

Common features of the cells:

- **Cell membrane** control the movement of the material what goes into and out of the cell
- **Cytoplasm** is a jelly like substance which makes up most of the cells.
- The cytoplasm contains a number of small structures called **organelles**
- **Ribosomes** make a protein. They receive chemical message from the nucleus
- **Mitochondria** produce energy for the cell
- **Nucleus** contain a substance called **DNA**
-



Parents Sign: _____

Answer _____

- **What is the function of ribosomes and mitochondria?**

Answer: Ribosomes make protein .Mitochondria produces the energy.

Answer _____

Activity: Robert Hook



- 1) **Write the few lines about the famous scientist Robert Hook?**

Parents Sign: _____

Date: 22nd June, 2020

Day: Monday

Unit#01 cells tissues and organs

Topic#02 Structure of plant cells

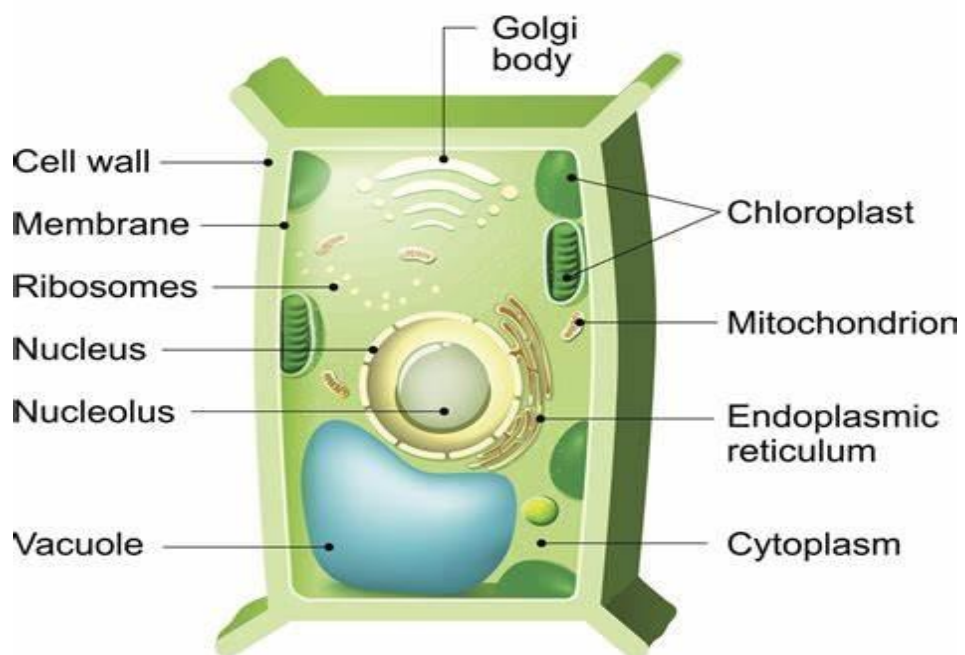
Book page no: 02

First understand this lecture from the Tutor web link given below.

<https://youtu.be/fJOo5Uf5IZw>

- **Plant cells** have a cell wall, as well as a cell membrane.
- **Cell wall** is made of a material called **cellulose**.
- **Vacuole** is a bag like a structure in the center of cytoplasm.
- It takes up most of the space inside the cell wall.
- **Chloroplast** contain the green pigment **chlorophyll**.

PLANT CELL



Parents Sign: _____

Date: 23rd June, 2020

Day: Tuesday

Unit#01 Cells tissues and organs

Topic# 2 Structure of plant cells

Home Assignment

Note: understand the previous video lecture and solved following questions

Question#01 Encircle the best option

A chloroplast contain green pigment called?

- a) Chlorophyll
- b) cellulose
- c) Lignin
- d) carotenoid

Plant cell wall is made up of_____?

- a) Cellulose
- b) chitin
- c) pectin
- d) lignin

Chloroplast used by plant in process of

- a) Photosynthesis
- b) respiration
- c) transpiration
- d) translocation

Question# 2

Learn and understand the answers of each question and write on the given lines

What is the composition of plant cell wall?

Answer: Plant cell wall is made of cellulose

What is the name of green pigment inside the chloroplast?

Answer: Chlorophyll is the green pigment found inside the chloroplast

Methodology of labelling

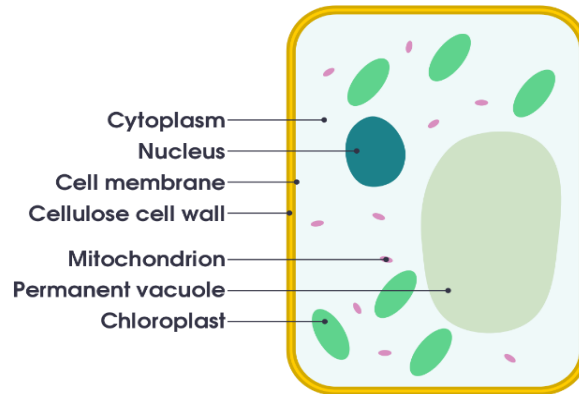
- All drawings should be done with sharp pen
- Use a ruler to draw straight and horizontal lines

Parents Sign:_____

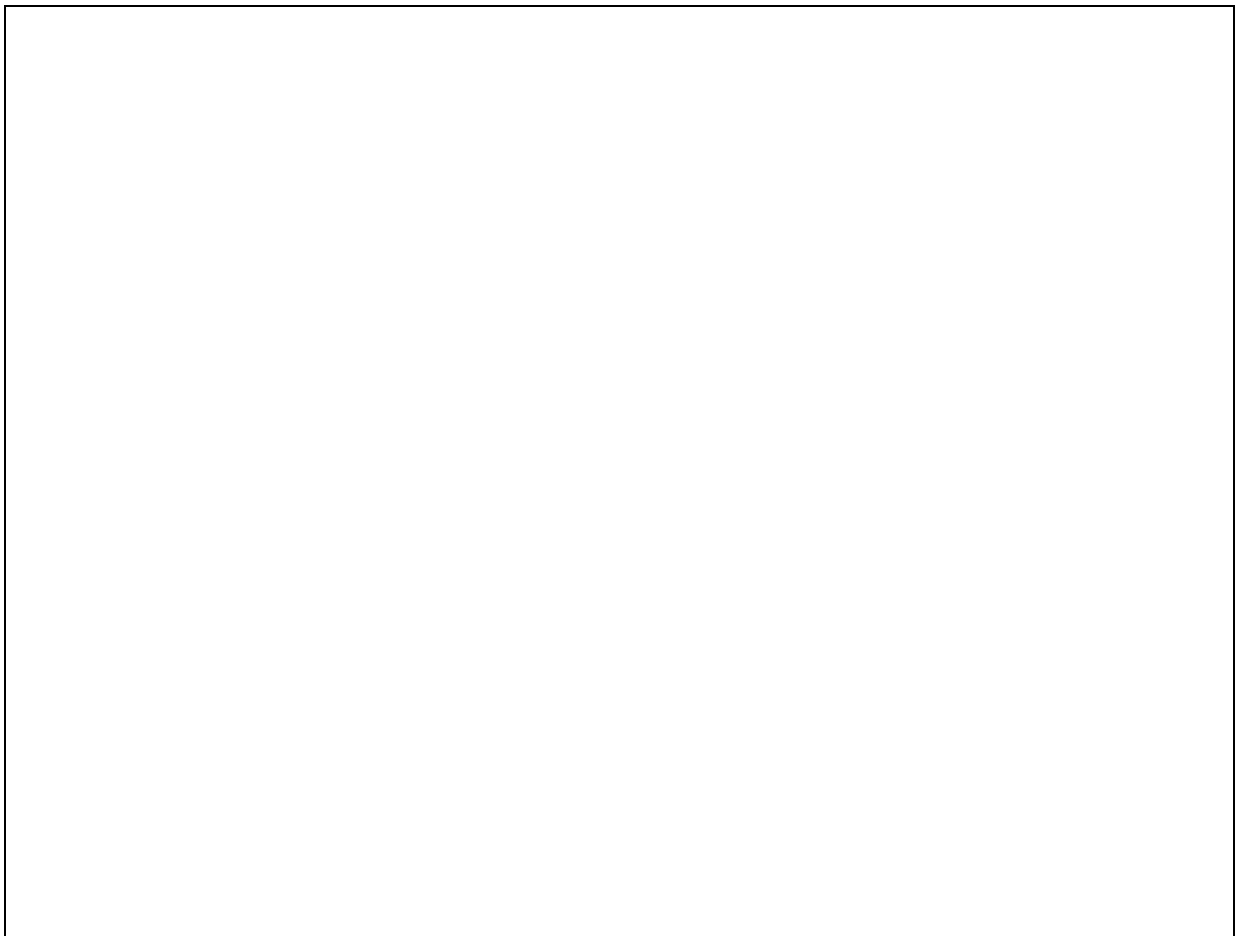
- All labelling should be clear
- diagram should be broad

Draw and Label the diagram of plant cell?

Answer:



Draw and label the diagram here:



Parents Sign: _____

Activity:

Biography of Dr. Atta Ur Rahman



1) Write a few lines about Muslim scientist Dr. Atta Ur Rahman?

Parents Sign: _____

Date: 24th June, 2020

Day: Wednesday

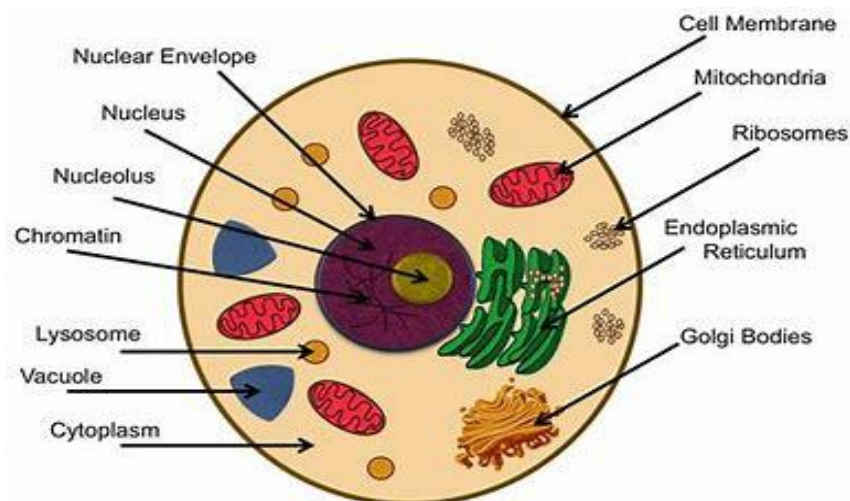
Unit#01 Cells tissues and organs

Topic#03 Structure of animal cells

Book page no: 3

First understand this lecture from the Tutor web link given below.

<https://youtu.be/ZkMGba7GCQc>



Animal cells differ from plant cell because:

- ❖ They have thin cell membrane.
- ❖ They do not have cell wall
- ❖ They do not have chloroplasts or a large vacuoles which only last for a short time

Parents Sign: _____

Date: 25th June, 2020

Day: Thursday

Unit#01 cells tissues and organ

Topic#03 Structure of animal cell

Home Assignment

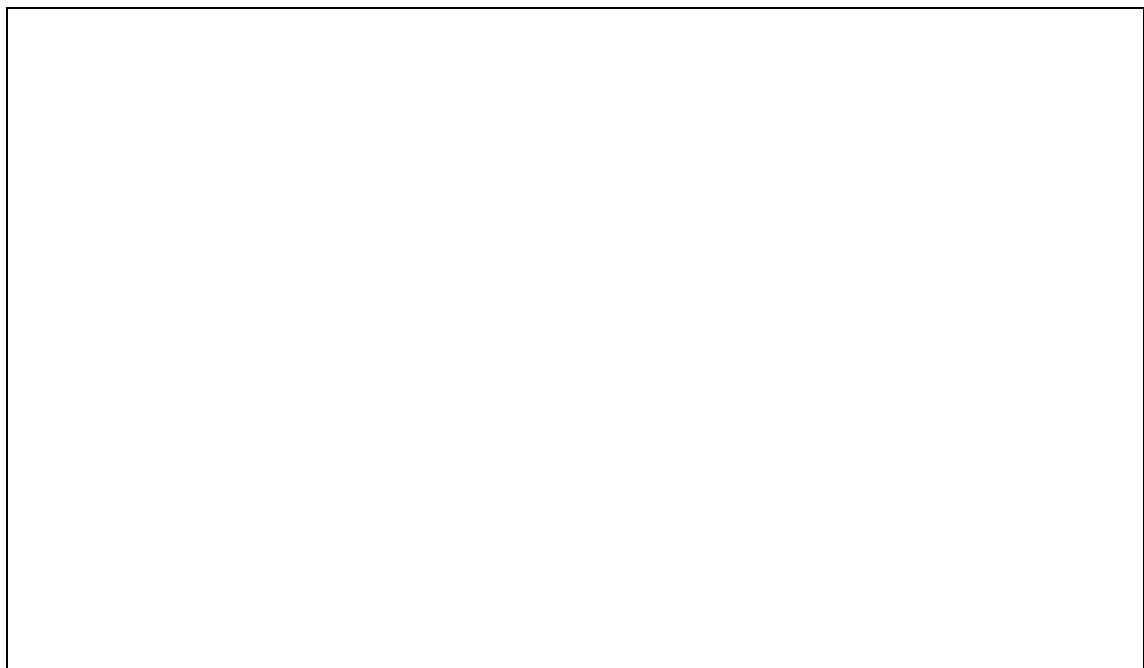
Question#1

Explain the structure of animal cell?

Answer: Animal cell only have a thin cell membrane. They do not have a cell wall. They do not have chloroplast or large and permanent vacuoles which only last for a short time

Answer

1) Draw and label the diagram of animal cell?



Parents Sign: _____

Date: 26th June, 2020

Day: Friday

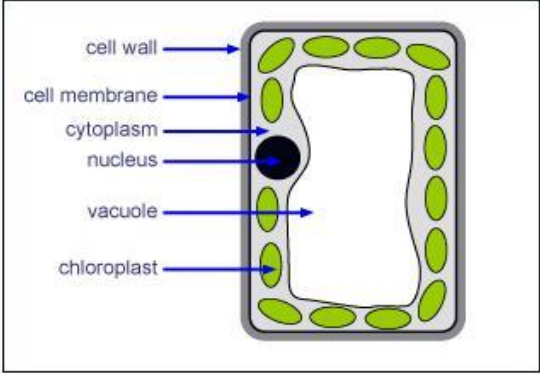
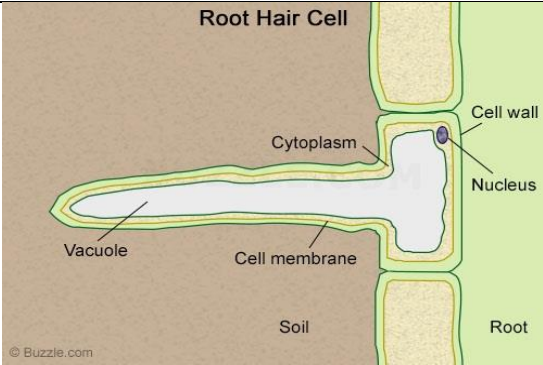
Unit#01 Cells tissues and organs

Topic# 04 specialized plant cells

Book page no: 4

First understand this lecture from the Tutor web link given below

<https://youtu.be/1b4Ptsi113w>

Cell name	Diagram
Palisade cells	 <p>The diagram shows a single palisade cell with a rectangular shape. It has a thick outer cell wall and a thinner inner cell membrane. The interior is filled with cytoplasm, a large central vacuole, a dark nucleus, and several green chloroplasts. Labels with arrows point to: cell wall, cell membrane, cytoplasm, nucleus, vacuole, and chloroplast.</p>
Root hairs cells	 <p>The diagram shows a cross-section of a root with a long, thin root hair cell extending into the soil. Labels include: Root Hair Cell, Cell wall, Cytoplasm, Nucleus, Vacuole, Cell membrane, Soil, and Root. A copyright notice for Buzzle.com is visible at the bottom left.</p>

Parents Sign: _____

Date: 27th June, 2020

Day: Saturday

Unit#01 Cells tissues and organs

Home Assignment

Topic: 04 specialized plant cells

Cell name	Features
Palisade cells	<ul style="list-style-type: none">• They are found in the top surface of leaves.• They have extra chloroplast to trap sunlight
Root hairs cell	<ul style="list-style-type: none">• They are mostly found in underground.• Their job is to draw in water and minerals salts• They don't have chloroplast

Question#01

What is the function of root hairs cell?

Answer

Where are found palisade cell?

Parents Sign: _____

What is difference between palisade and root hairs cells?

Activity:

Robert Brown



1) Write the few lines about the Robert Brown?

Parents Sign: _____

Date: 29th June, 2020

Day: Monday


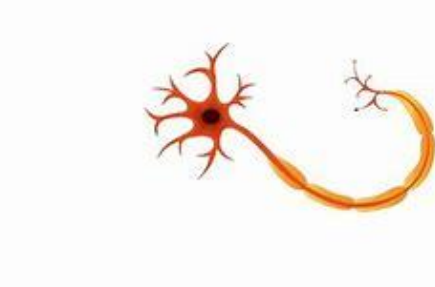
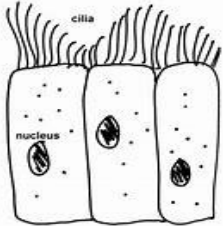
Unit#01 Cells tissues and organs

Topic#04 Specialized Animal Cells

Book page no: 3-4

First understand this lecture from the Tutor web link given below.

<https://youtu.be/BgmVgzyUVUU>

Type of cells	Diagram
Red blood cells	 <p>Red Blood Cells</p>
Nerve cell	 <p>nerve cell</p>
Ciliated epithelial	 <p>cilia nucleus</p>

Parents Sign: _____

Date: 30th June, 2020

Day: Tuesday

Unit#01 Cells tissues and organs

Topic#5 Specialized Animal cells

Home Assignment

Type of cell	Function
Red blood cells	<ul style="list-style-type: none">• Carry oxygen around the body
Nerve cell	<ul style="list-style-type: none">• Carry message around the body
Ciliated epithelial cell	<ul style="list-style-type: none">• Tiny hairs like structure, called cilia.• They are found in the nose and wind pipe, so keep them clean

Learn the function of each cell from the above table and write on the given lines

Question#01

What is the function of red blood cells?

Answer

what is the function of nerve cell?

Answer

Parents Sign: _____

What is cilia?

Answer

Activity:

Carolus Linnaeus



1) Write the few lines about Carolus Linnaeus?

Parents Sign: _____

Date:1st July, 2020

Day: Wednesday

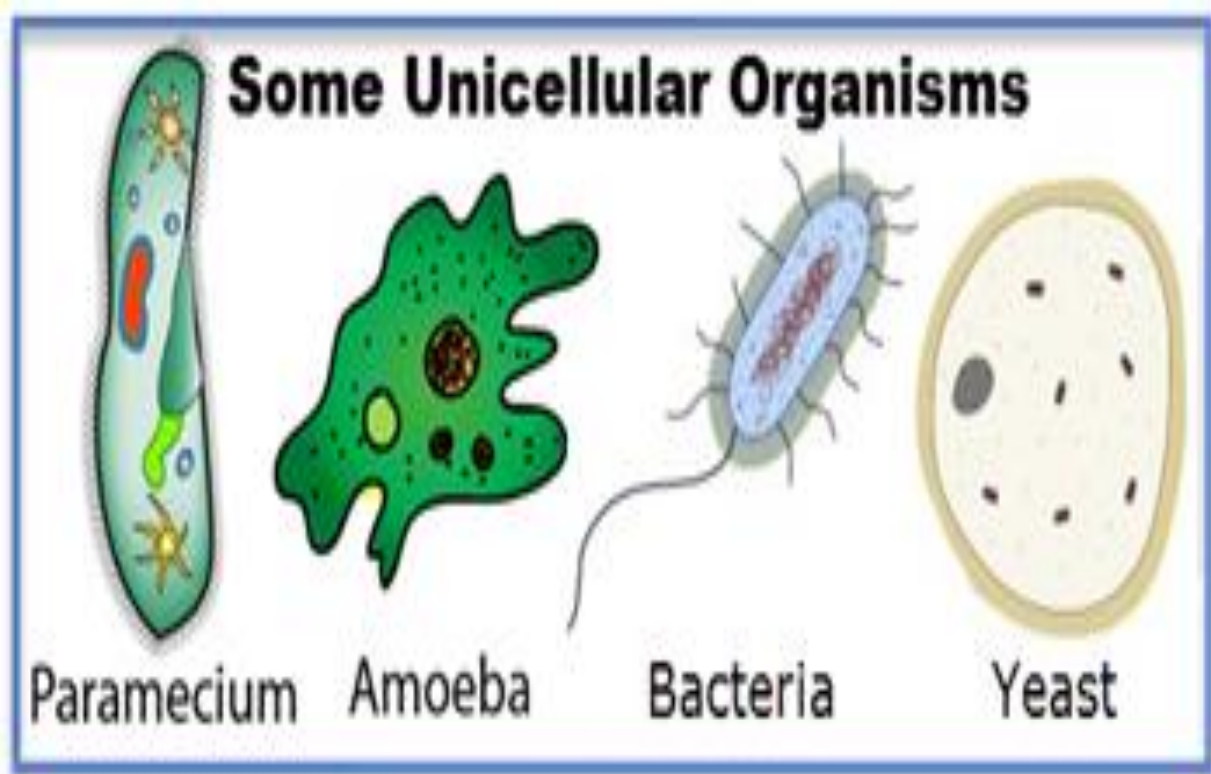
Unit#01 Cells tissues and organs

Topic#6 Unicellular and multicellular organisms

Book page no#5

First understand this lecture from the Tutor web link given below

<https://youtu.be/5RJD-CHoa7Q>



Parents Sign: _____

Date: 2nd July, 2020

Day: Thursday

Unit#01 Cells tissues and organs

Topic#06 Unicellular and multicellular organisms

Unicellular organisms	Multicellular organisms
The organisms made up of only one cell are called unicellular organisms Examples: <ul style="list-style-type: none">• Amoeba• chlorella• bacteria	The organisms made up of more than one cells are called multicellular organisms Examples: <ul style="list-style-type: none">• plants body• human

Home Assignment

what is difference between unicellular and multicellular organisms?

Answer: _____

Give two examples of unicellular organisms?

Answer _____

Parents Sign: _____

Activity:

Jabir ibn Hayyan



1) Write a few lines about Jabir ibn Hayyan?

Parents Sign: _____

Date: 3rd July, 2020

Day: Friday

Unit#01 Cells tissues and organs

Topic: Tissues

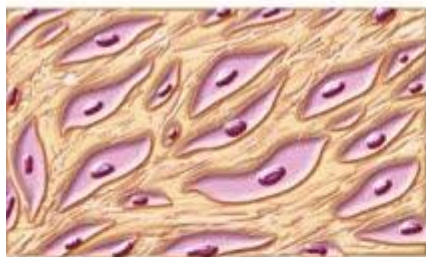
book page no:

First understand this lecture from the Tutor web link given below.

<https://youtu.be/UWnbDQ4Z5CU>

- ❖ Cells of same type usually group together to form a tissues
- ❖ A tissue is an ensemble of similar cells and their extracellular matrix from the same origin that together carry out a specific function.
- ❖ **Tissue** is a cellular organizational level between cells and a complete organ.
- ❖ A tissue is an ensemble of similar cells and their extracellular matrix from the same origin that together carry out a specific function.

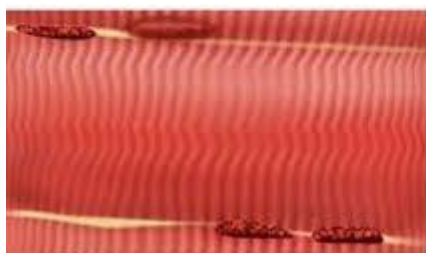
Four types of tissue



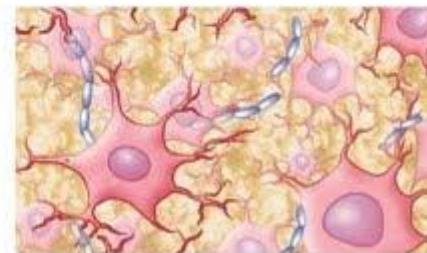
Connective tissue



Epithelial tissue



Muscle tissue



Nervous tissue

Parents Sign: _____

Date: 4th July, 2020

Day: Saturday

Unit#01 Cells tissues and organ

Topic: Tissues Home Assignment

Understand this table and give answers of the following questions

Tissues	Where it is found	What is made of	Function
Epidermal tissues	<ul style="list-style-type: none">• Surface of leave	<ul style="list-style-type: none">• Sheet of flattened cells	<ul style="list-style-type: none">• Protect the plant from damage
Photosynthetic tissues	<ul style="list-style-type: none">• Leaves	<ul style="list-style-type: none">• Palisade cells with lots of chlorophyll	<ul style="list-style-type: none">• Make food for plants
Supporting tissue	<ul style="list-style-type: none">• Plant stem	<ul style="list-style-type: none">• Cells with thickened walls	<ul style="list-style-type: none">• Support and strengthens the plant
Epithelial tissue	<ul style="list-style-type: none">• Surface of animal skin,• lining the tubes inside human body	<ul style="list-style-type: none">• Sheet of cells	<ul style="list-style-type: none">• Protect the structure underneath
Muscle tissue	<ul style="list-style-type: none">• In the limbs and in the walls of certain organs	<ul style="list-style-type: none">• Bundles of muscles cell	<ul style="list-style-type: none">• Contract to bring about movement in an animal's body
Nerve tissue	<ul style="list-style-type: none">• In the brain and spinal cord	<ul style="list-style-type: none">• A network of nerve cell	<ul style="list-style-type: none">• Carry message around the body

Parents Sign: _____

Question #1

Fill in the blanks

- _____ tissues are found in the brain and spinal cord.
- Supporting tissues are found in _____.

- Epidermal tissues are made of _____.

Question#02

- What is function of muscles cell?

- What is the occurrence of nerve tissues?

- What is the composition of epithelial cells?

- What is the function of photosynthetic tissues?

Activity:

Write the few lines about Aristotle?

Parents Sign: _____

Parents Sign: _____