

# LOHANA HIGH SCHOOL

## BIOLOGY DEPARTMENT

### Chapter one

1. In your groups, study the figure below and answer the questions that follow

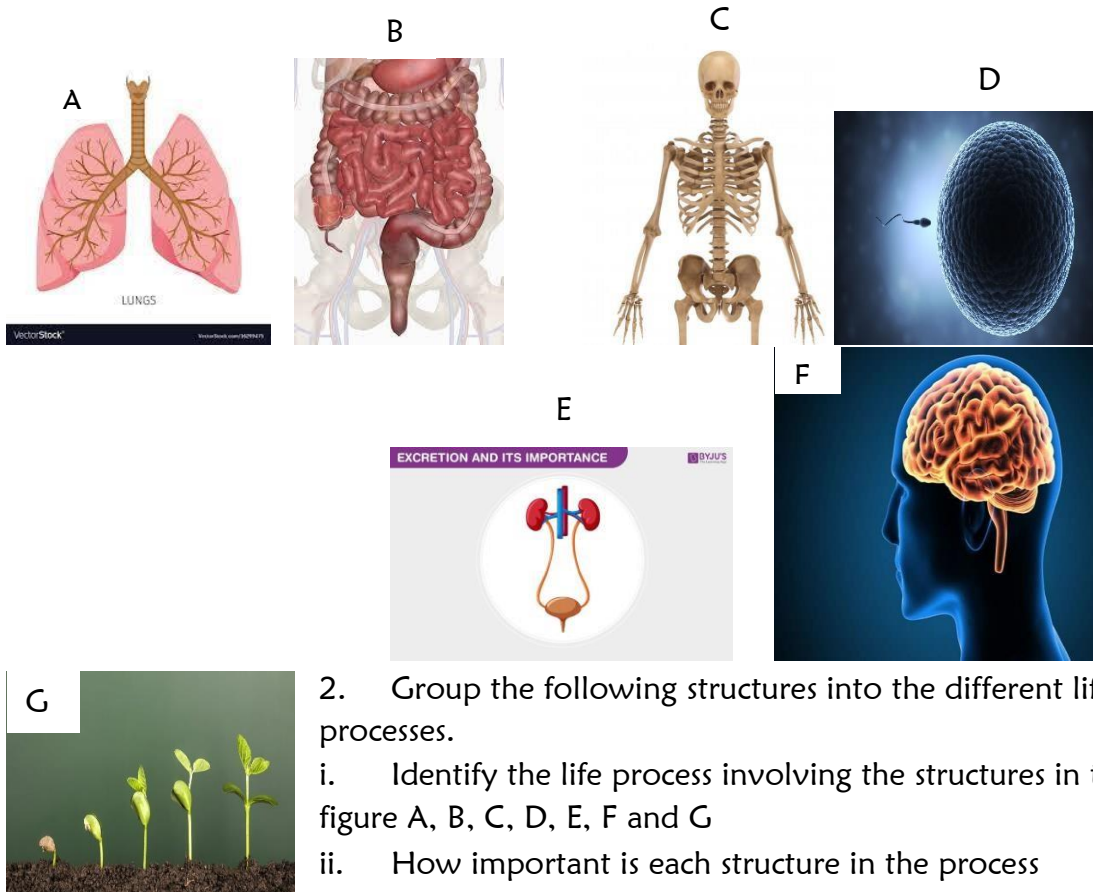


- i. Identify the different careers/professions in the figure above.
- ii. How do the identified careers relate with the different branches of biology?

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2. Group the following structures into the different life processes.
- Identify the life process involving the structures in the figure A, B, C, D, E, F and G
  - How important is each structure in the process identified?

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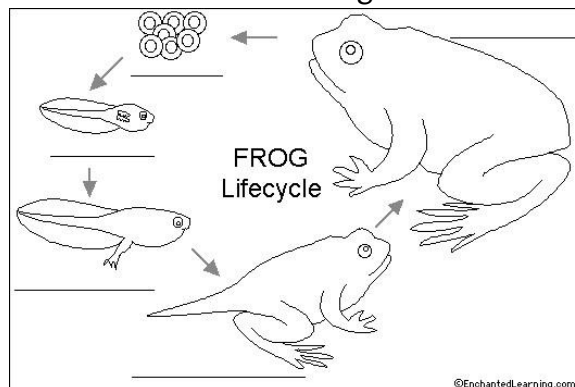
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3. Study the organisms below



- i. Identify the differences between the two figures regarding the life processes

4. Identify the life processes shown in the drawing below



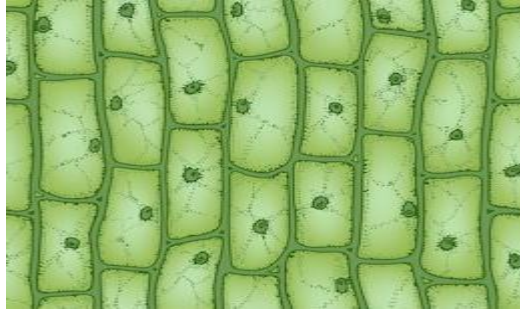
- i. How do the life process help the organism in life

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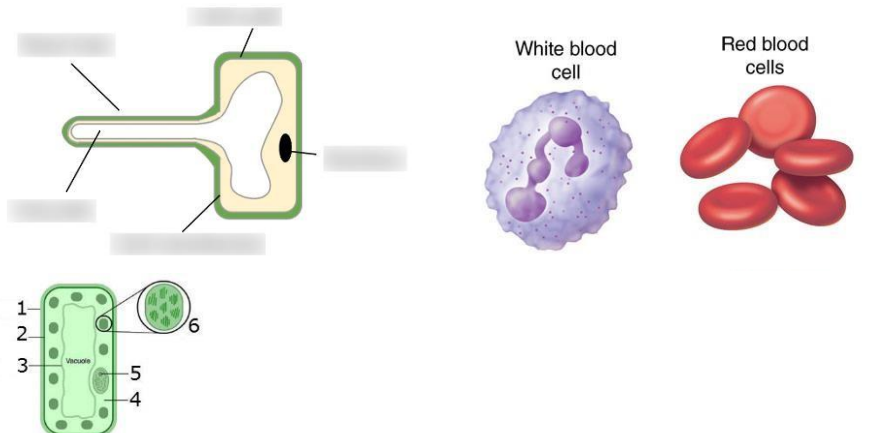
### Chapter 2

1. The figure below shows cells observed under a microscope



- i. Identify the organism from which the above cells were extracted was observed in the microscope.
- ii. Give a reason for the answer in (i) above
- iii. How many cells are complete?
- iv. Draw out one cell from the figure above and label it.

2. Study the drawings below

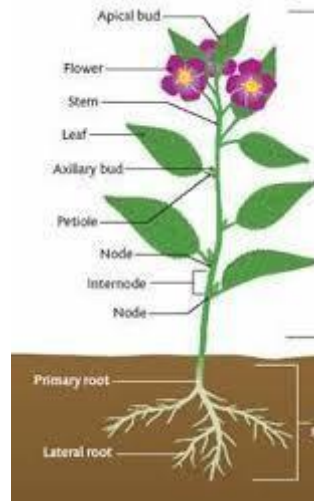


- i. State any special features seen in the above cells

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3. Below is a drawing of flowering plant



- a. From the drawings, identify the following
  - i. Systems
  - ii. Organs
- b. Where on the plant could the two tissues be originating?
- c. Identify the life processes that link to the plant tissues mentioned

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4. Use the pictures below to answer the following questions.



- a. (i) . Identify the organisms in the above diagram.  
ii). with reasons, identify the life processes carried out by the above organisms.  
iii) How is the above life process beneficial to the above organisms?
- b). (i) Give any other life processes apart from those demonstrated in the above diagram.  
ii). You are in a community around a grassland. There is a lioness which always come at night and attack the livestock of the locals. The locals are planning to attack and kill the lioness because they are fade up with the losses. You are a Biologist who is interested in conservation, prepare to sensitize the angry community and give them measures of how to deal with this challenge.

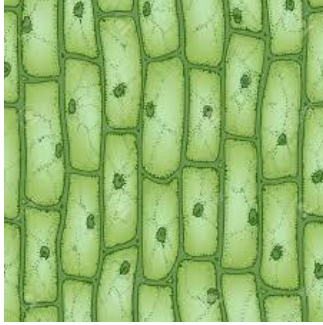
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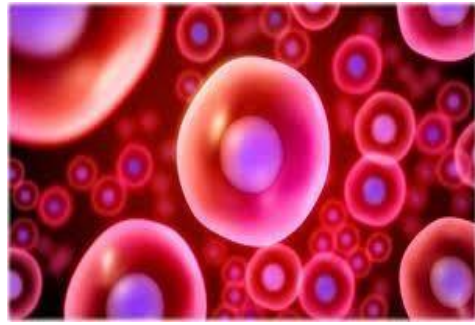
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5. Use the pictures below to answer the following questions.

1.



2



a). The above are as observed under a microscope and they are very important to life. Identify the above biological structures.

ii). What structure belongs to

- a Animals
- b Plants

b). Draw a single unit from each of the pictures. Do not label

ii). Using the above drawings (bi), identify the similarities and differences between a single unit from 1 and 2.



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6. The picture below is like you, it requires small units in order to come up with that whole structure. In order for this house to be constructed, starts from a brick, wall, room, rooms and then finally to a house.



Relate these structures to how your body is organized using the table below.

Wall	
House	
Brick	
Room	
Rooms	

- b). Arrange the above given answers in an increasing order i.e from the smallest unit to your whole body. Give examples in each case.

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7. Using a bean seed a tomato and a stone, design an experiment at home to show which of these can be classified as a living organism.

What to do.

- a Outline the apparatus used
  - b Procedure (including time taken)
  - c Observation □ Explanation □ Conclusion.
8. Keep bread or left over food in a dark moisten place at home for at least a week.
- a). State your observations
    - i. Before the start of the experiment
    - ii. At the end of the experiment
  - b. (i) Explain the observation in a (ii) above.
    - ii). Identify the life process that has took place.