Al Sharq Bright International School

Model Paper for Final Exam 2017-2018

Name: _____ **Subject:** Biology **Class:** 10A **Date:** _____

Paper – 2

A. Multiple choice questions:

1. The equation shows a chemical reaction that occurs in living organisms.

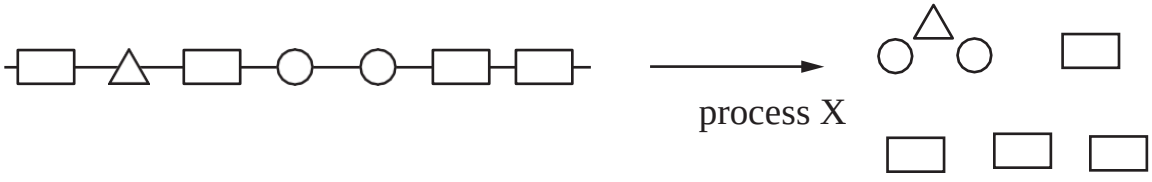
   glucose + oxygen → carbon dioxide + water

   Which of these characteristics of living organisms is this equation associated with?

	respiration	Nutrition
A	✓	✓
B	✓	✗
C	✗	✓
D	✗	✗

2. What is a correct way of naming an organism using the binomial system?
   a) Common Buttercup
   b) Ranunculus Acris
   c) ranunculus Acris
   d) Ranunculus species

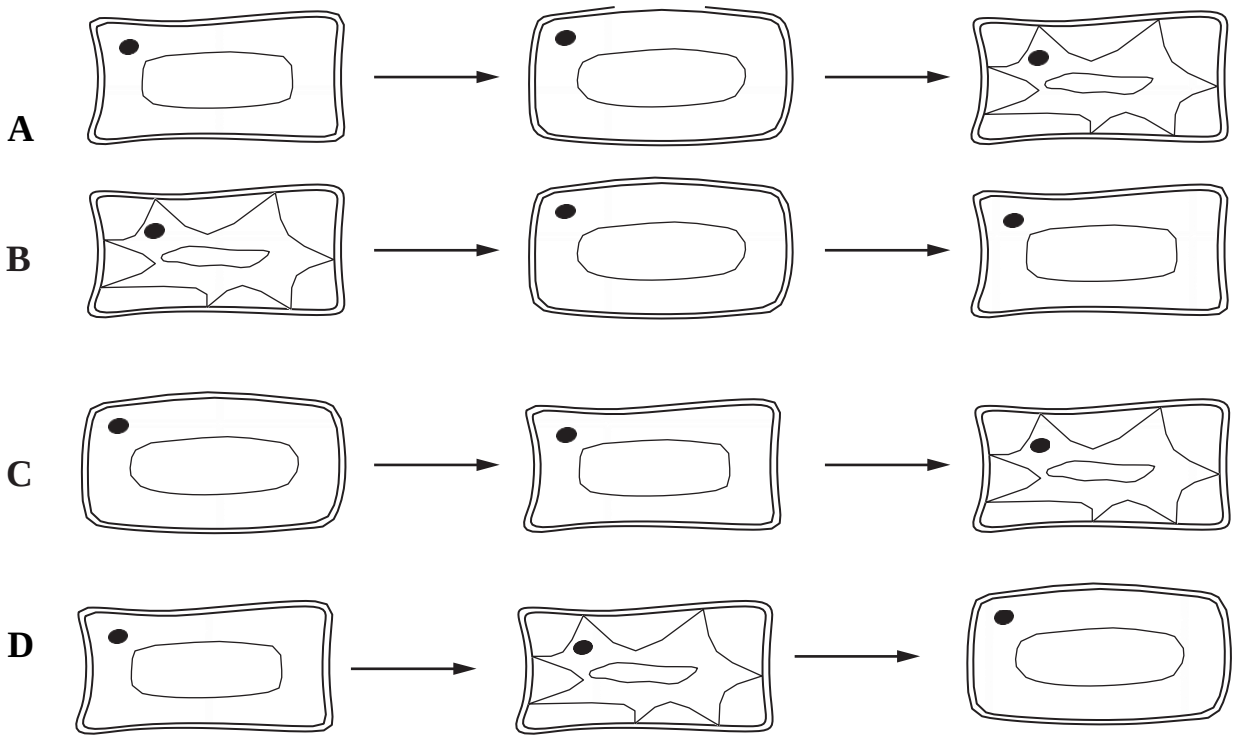
3. The diagram shows a large food molecule changing into smaller molecules.



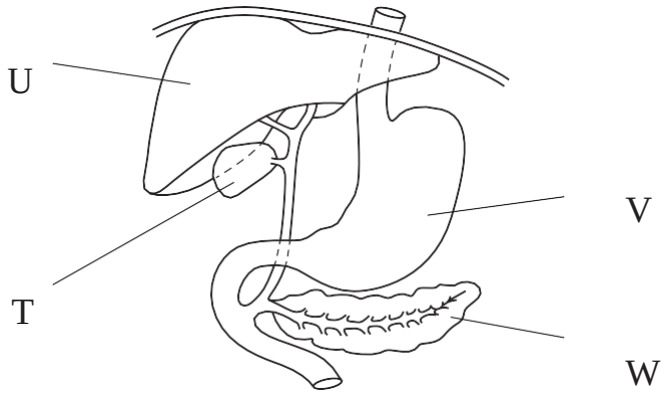
   What is process X?

   a) absorption b) chewing c) digestion d) secretion

4. Which diagram shows the changes in appearance of a plant cell when it remains in a concentrated sugar solution for thirty minutes?



5. The diagram shows part of the alimentary canal and associated organs.



Which structures secrete enzymes that digest proteins?

a) T and U b) U and V c) V and W d) W and T

Paper – 4

B. Answer the following questions:

1. Fig. 2.1 shows three mammals. Which one of the following is odd?

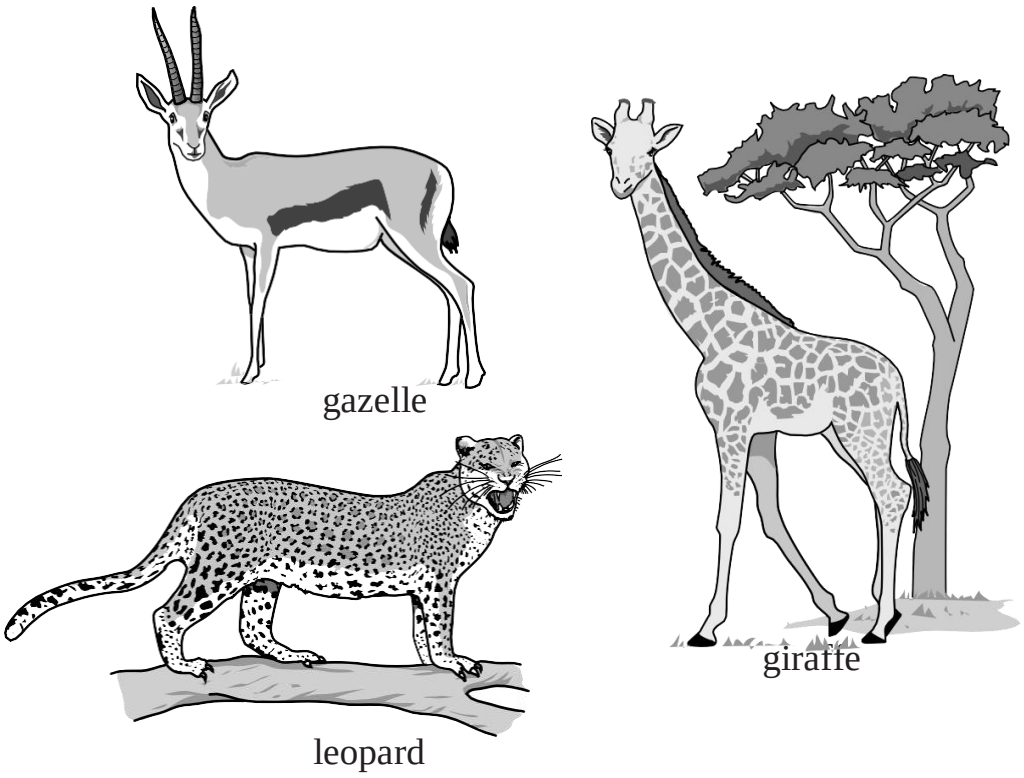
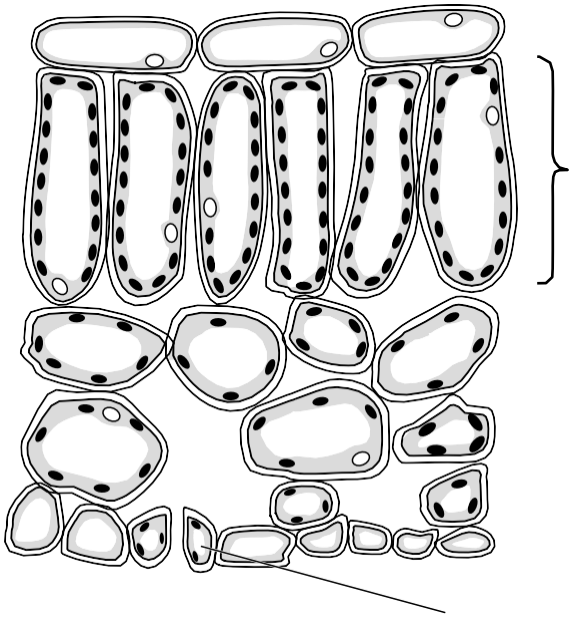


Fig. 2.1

2. Fig. 7.1 shows a section through a leaf.

   (a) Name the structure labeled J and K.



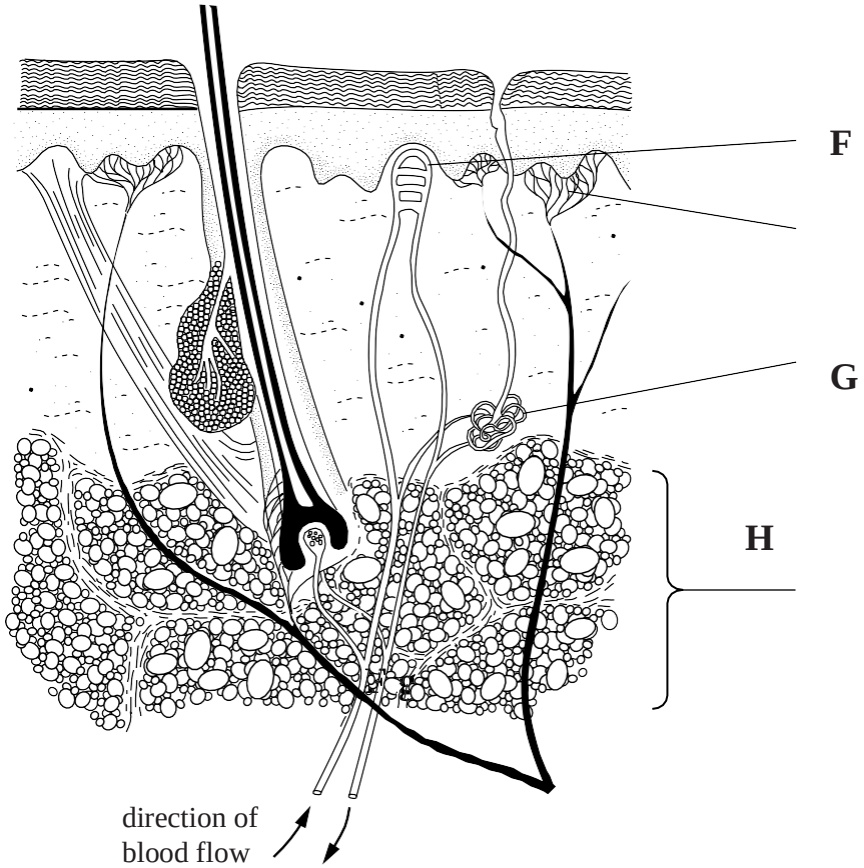
J .....

K.....

(b) Leaves carry out photosynthesis.

Write the word equation for photosynthesis.

3. Fig. 3.1 shows a section through the skin.



(a) Name the structures labelled in Fig. 3.1 and outline a function in the skin for each one.

Write your answers in Table 3.1.

An example has been done for you.

Table 3.1

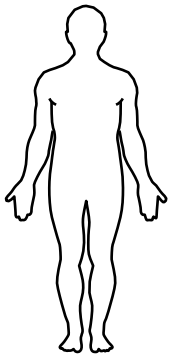
structure	name of structure	function in the skin
F		
G		
H	sweat gland	produces sweat for cooling the body
J		

Paper – 6

C. Alternative to practical:

The heart pumps blood to the body through the arteries. The rate of blood flow can be determined at certain sites around the body as a pulse. This can be used to estimate the heart rate.

On Fig. 2.1, label **two** sites where you can feel a pulse.



Suggest **one** feature of these sites that makes it possible to feel a pulse.

Ans: _____

Describe how you could measure the pulse and use this to estimate the heart rate.

Ans: _____

_____

Note: <u>This is just a model, not the exam paper.</u>