

**PENANG SANGAM HIGH SCHOOL**

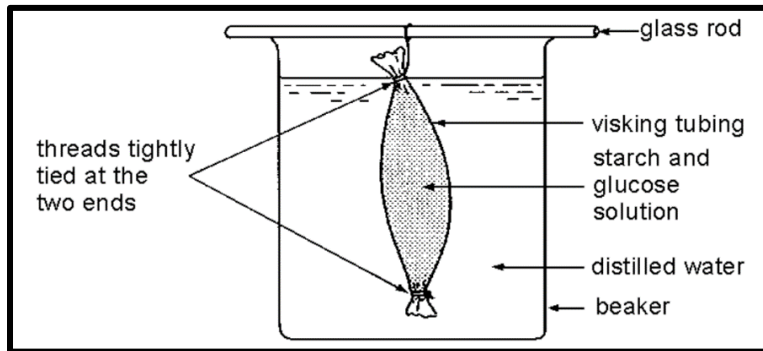
**YEAR 10**

**BASIC SCIENCE**

**WORKSHEET 1**

1. Exchange of air occurs in \_\_\_\_\_ which are also known as **air sacs**.
  - A. alveoli
  - B. bronchi
  - C. bronchioles
  - D. alveolar ducts
  
2. A greyish white tube like organ that carries food from mouth to stomach is  
A. Trachea                      B. Epiglottis      C. Oesophagus              D. Small intestine
  
3. Carbohydrates, proteins and fat are the main nutrients in our food. They need to be broken down in order for it to be absorbed in to the body. Which of the following is true?
  - A. Starch broken down to glucose
  - B. Protein broken down to fatty acid.
  - C. Fats broken down to glucose
  - D. Starch broken down to amino acids
  
4. The component of blood that is responsible for blood clotting is called
  - A. White blood cells
  - B. Red blood cells
  - C. Plasma
  - D. Platelets
  
5. How many chambers does the heart have?  
A. 2                                      B. 4                                      C. 3                                      D. 5
  
6. Which of the substances is removed from the blood as it passes through the kidney and stored in the bladder?
  - A. Oxygen
  - B. Urea
  - C. Glucose
  - D. Carbon dioxide
  
7. Blood vessels which carry the blood away from the heart are
  - A. Arteries
  - B. Veins
  - C. Valves
  - D. Septum

8. A group of Year 10 students set-up a model gut experiment as shown below. Study the diagram and answer questions that follow.



- i. Which of the two substances passed through the walls of the visking tube?

\_\_\_\_\_

- ii. Explain your response in (ii) above.

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

- iii. Explain how the walls of the visking tube are similar to that of the small intestine?

\_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

**ESSAY :**

*With reference to the question below, use a blank page to write an essay using 150 – 200 words.*

Digestion is one of the important processes that takes place in our body on a daily basis.

In your essay you are required to :

- **Define** digestion
- **Explain** the **significance** of digestion
- **Describe** the path food takes as it enters the body and the organs in the digestive tract. **Explain** the processes food encounters as it enters each organ in the body.

...STAY SAFE... 😊