

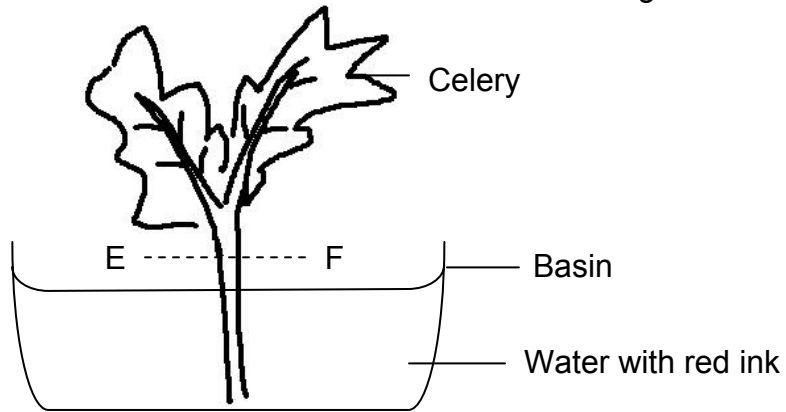
**Primary Four
Science
Continual Assessment Two**

Section A: Each question carries 2 marks and is followed by four possible answers. Mark your choice [1, 2, 3, 4] in the given box.





1. Which part of a plant traps energy from the sun to make food?

- (1) flowers
- (2) leaves
- (3) roots
- (4) stems

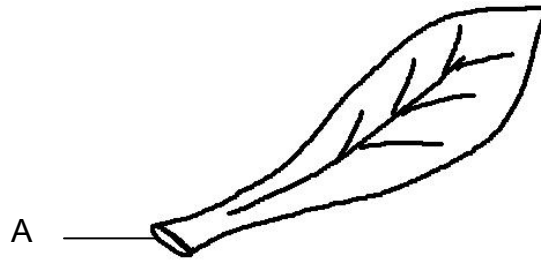
2. A stalk of celery was placed into a container filled with red ink. The following day, the stalk was removed and cut across at EF as shown in the diagram below.



Which of the following diagrams below shows what is observed of the celery stalk when it is cut at EF?

- (1)  (2) 
- (3)  (4) 
- Red colored parts

3. The part marked 'A' in the diagram below helps the plant to make food by _____.



- (1) bringing water to the leaf
- (2) producing carbon dioxide
- (3) providing the leaf with chlorophyll
- (4) trapping energy from the sun

4. Which one of the following depends directly on the Sun for food?

- (1) man
- (2) monkey
- (3) moss
- (4) mould

5. Blood is transported in our body through tubes called _____.

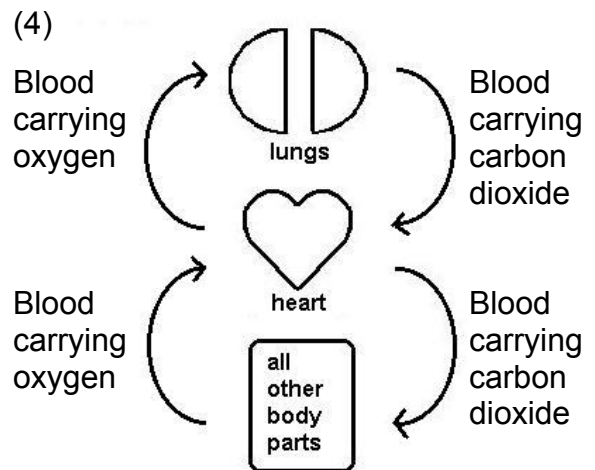
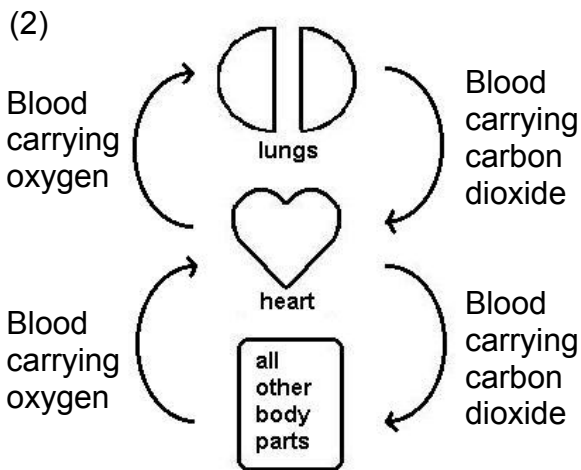
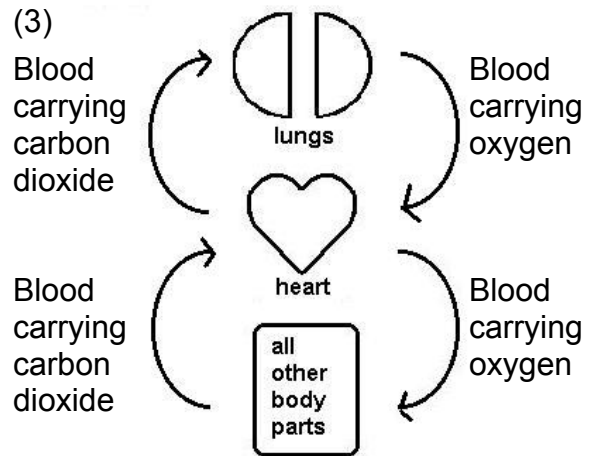
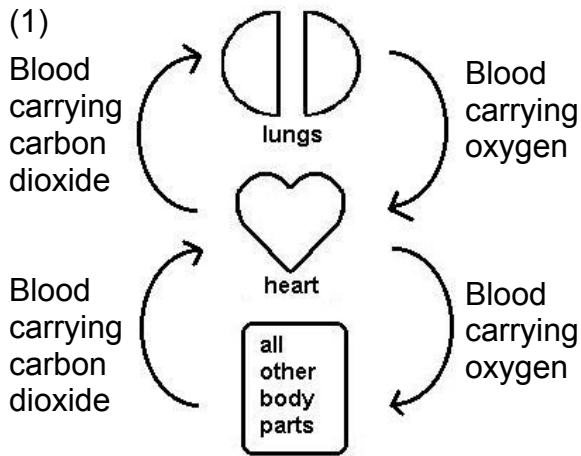
- (1) arteries
- (2) blood vessels
- (3) capillaries
- (4) veins

6. A person's heart beats faster when he does vigorous exercise as it has to supply more _____ in the blood.

- A: food
- B: water
- C: oxygen
- D: carbon dioxide

- (1) A only
- (2) C only
- (3) A and C only
- (4) B and D only

7. Which of the following represents the circulatory system correctly?



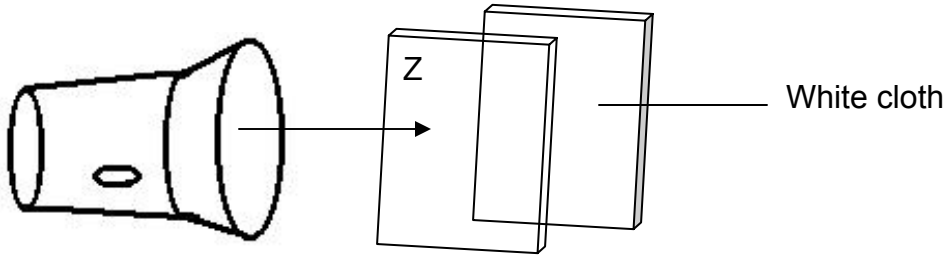
8. Study the daily diet of the 4 people in the table below.

Food	Joey	Ross	Monica	Rachel
Eggs	3	5	1	-
Meat	600g	600g	120g	130g
Potato	400g	800g	150g	200g

Which of them is most likely to be a wrestler? (Hint: a wrestler's mass is usually between 150-200 kg)

- (1) Joey
- (2) Ross
- (3) Monica
- (4) Rachel

9. Study the diagram below.



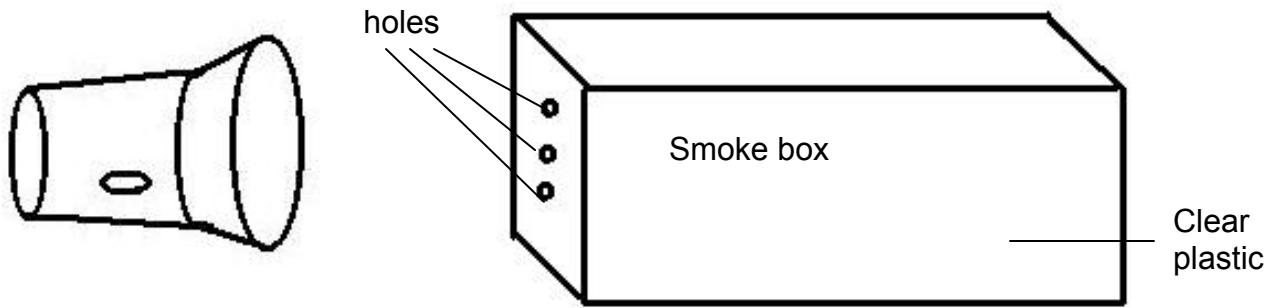
When the light from the torch passed through Z, a black shadow is observed on the white cloth. What material could 'Z' be made of?

- (1) clear food wrap
- (2) clear transparency
- (3) tracing paper
- (4) wooden board

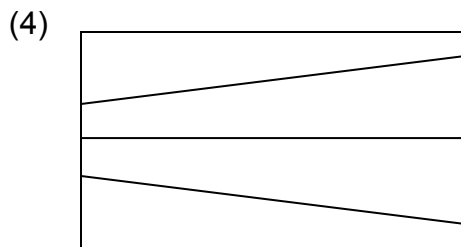
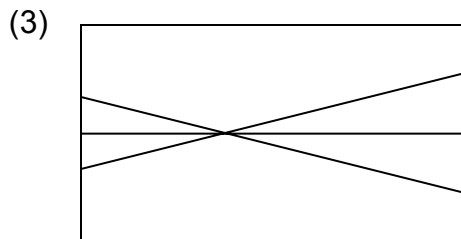
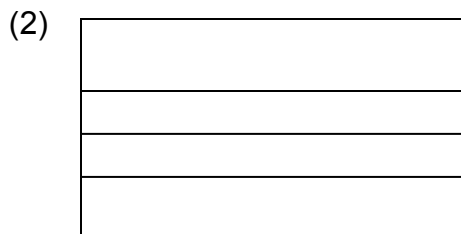
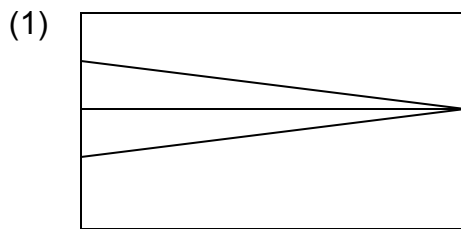
10. Which of the following properties of light is false?

- (1) Light can be reflected
- (2) Light travels in straight lines
- (3) Light can pass through glass mirrors
- (4) Light from a source travels in all directions

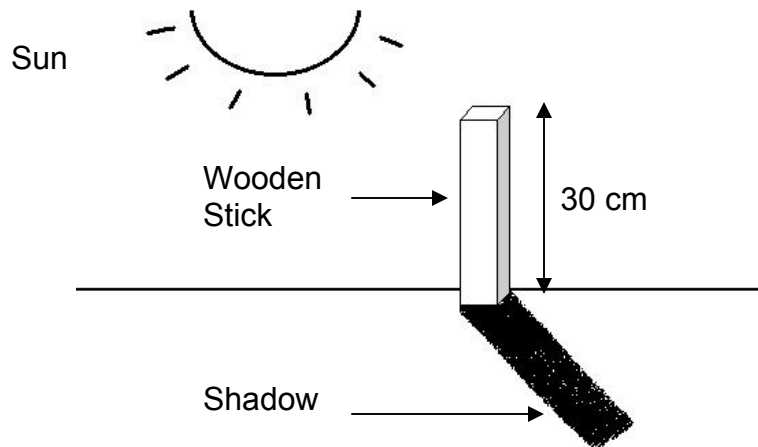
11. Study the diagram below.



When the torch is switched on, light from the torch enters the smoke box through the 3 holes. Which of the following correctly shows how the rays of light travel through the smoke box?



12. Questions 12 and 13 are based on the following figure.
For a science project, Joyce was asked to record the length of the shadow cast by a wooden stick.



The table below shows the readings she collected.

Time	Length (cm) of shadow of wooden stick
7 a.m.	45
9 a.m.	31
11 a.m.	14
1 p.m.	13
3 p.m.	M
5 p.m.	39

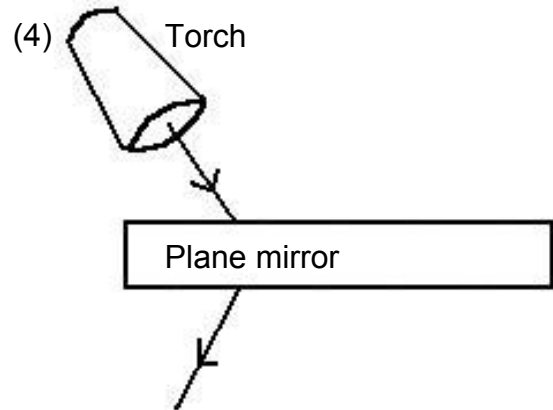
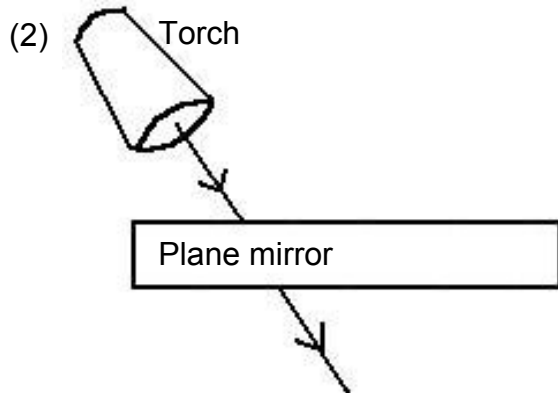
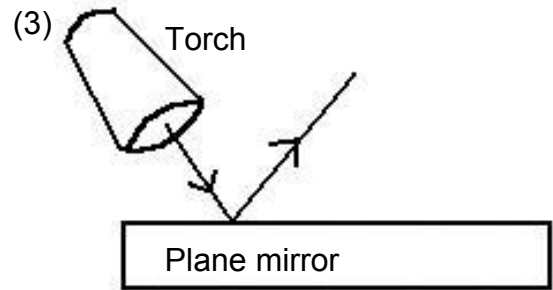
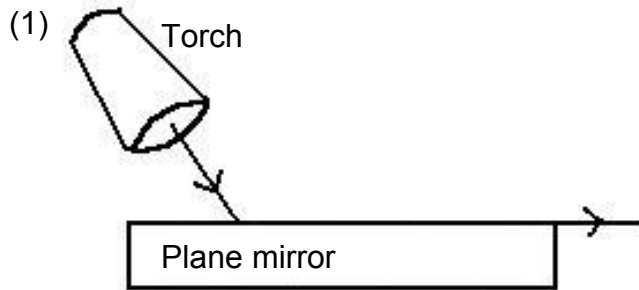
What is the reading of 'M' cm?

- (1) 10
- (2) 14
- (3) 32
- (4) 44

13. However, Joyce forgot to record the length of the shadow at 8 a.m. What should the length of the shadow be at 8 a.m.?

- (1) 5 – 15 cm
- (2) 15 – 25 cm
- (3) 25 – 35 cm
- (4) 35 – 45 cm

14. A beam of light from the torch falls on a plane mirror.
Which of the following diagrams shows the path taken by the beam after it comes into contact with the mirror?



15. When a beam of light falls on a piece of soot-coated aluminum foil, most of the light is _____.

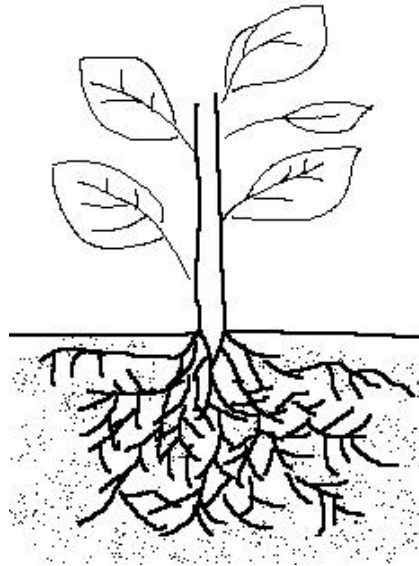
- (1) absorbed by the soot
- (2) reflected in one direction
- (3) reflected in all directions
- (4) passes through the aluminum foil

Section B: (20 marks) Study each question carefully and write its correct answer in the space provided.

16. Fill the blanks below with the suitable answers (4 marks)

The xylem tubes transport _____(a)_____ and mineral salts from the _____(b)_____ to all the other parts of the plant. The _____(c)_____ tubes transport food from the _____(d)_____ to all the other parts of the plant. They work together to help the plant grow healthily.

17. The plant below uses water, sunlight and carbon dioxide to produce food.



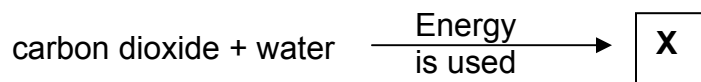
(a) The diagram shows the process of the plant producing food. What is it called?

_____ (1 mark)

(b) In which part of the plant is food being produced?

_____ (1 mark)

(c) From the following equation,



During the process of producing food as mentioned in question (a), energy from the sun is absorbed to combine carbon dioxide and water to make X.

What is X?

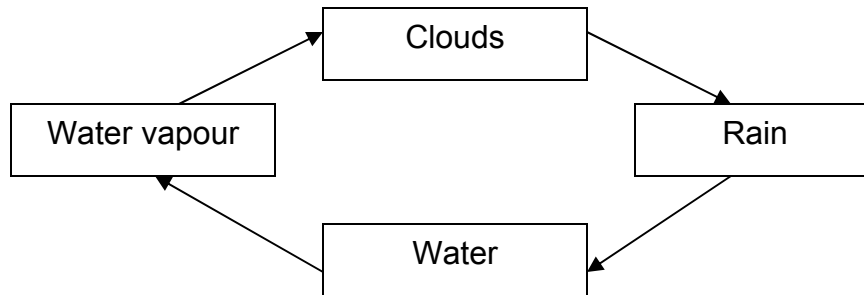
_____ (1 mark)

18. Fill in the blanks with the suitable answers (2 marks)

(a) The organs where oxygen is taken in and carbon dioxide is given out.

(b) The organ that helps to pump blood to all parts of the body.

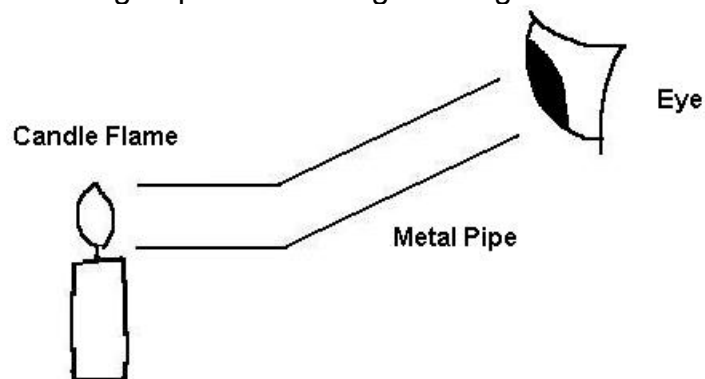
19. The diagram below shows the water cycle. (2 marks)



(a) Where does the heat needed for the water to evaporate come from?

(b) What are the clouds made of?

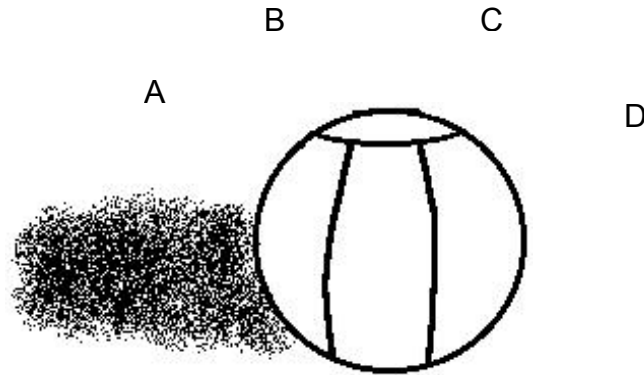
20. Answer the following 2 questions using the diagram below.



(a) Is it possible to see the candle light through the metal pipe? (1 mark)

(b) Why? (2 marks)

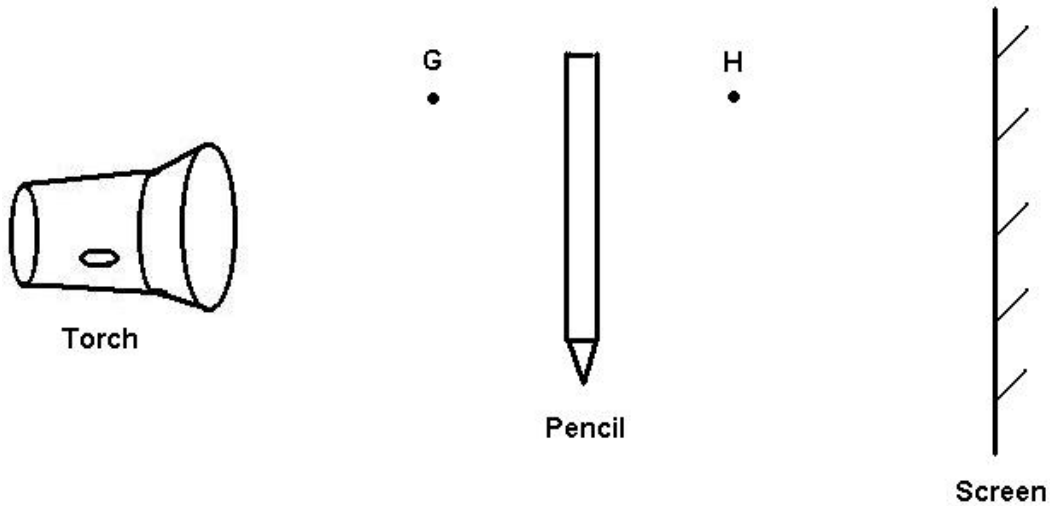
21. (a)



In the diagram above shows a ball placed in an open field on a sunny say. The shadow of the ball is cast as shown. Which position (A, B, C, D) is the Sun most likely to be?

_____ (1 mark)

21. (b)



The diagram above shows the position of the torch, pencil and the screen. In order to enlarge the shadow formed on the screen, the position of the pencil should be changed to G or H?

_____ (1 mark)

22. Determine whether the following statements are **True** or **False**. Write your answer in the boxes provided (2 marks)

(a) A dark object reflects very little light.

(b) Light is not a matter.

(c) Only some objects allow light to pass through them.

(d) Shadows can still be formed in complete darkness

23. Put the following 4 items into the table below, grouped according to the headings shown.

- Cardboard
- Clear plastic bag
- Concrete wall
- Diamond

Light can pass through	Light cannot pass through