IQ School Science
Primary 4 Semester Assessment 1 – Dec 2021

Name: ( )	Class:	Date:
Parent's Signature:	Marks: /40	Total: %

Section A. Multiple Choice Questions.

1. Which one of the following is a source of light and also a source of heat?

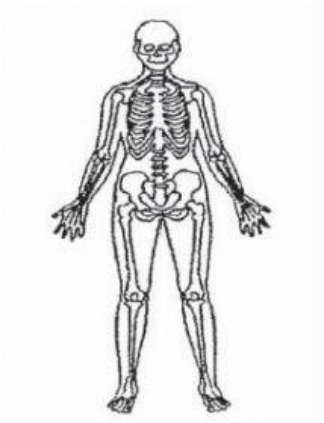
(a)  the moon

(c)  the sun

(b)  rainbow

(d)  cloud ( )

2. Which organ system is shown in the diagram?



(a) skeletal system
(b) muscular system
(c) circulatory system
(d) respiratory system ( )

3. Which one of the following statements about light is not true?

(a) Light is a form of energy.

(b) Light is important to plants only.

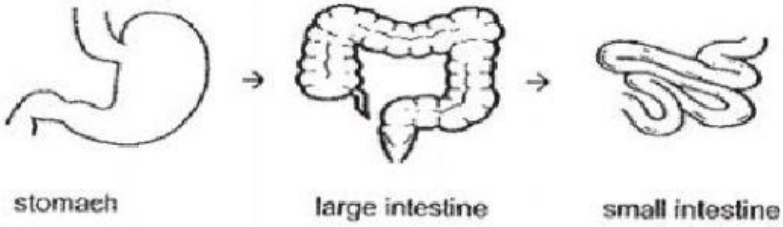
(c) Light allows us to see objects around us.

(d) Objects which give off light on their own are known as sources of light.

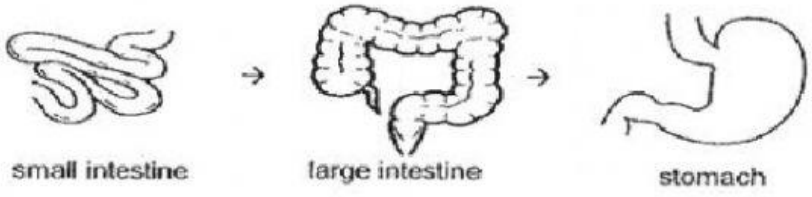
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4. Which one of the following shows the correct order when food moves through some parts of the digestive system?

(a) 

(b) 

(c) 

(d) 

( )

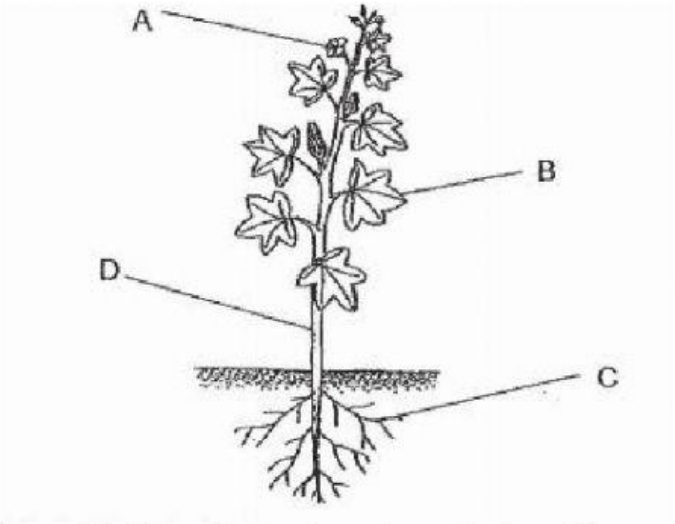
5. Which one of the following correctly matches the human system to its function?

	System	Function
(a)	Circulatory system	Removes air from the body
(b)	Muscular system	Gives the body its shape
(c)	Respiratory system	Helps the body to move
(d)	Skeletal system	Protects organs in the body

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The picture below shows a plant. Answer question 5 and 6.



6. Which part A, B, C or D absorbs water and minerals?

(a) A (c) C
(b) B (d) D ( )

7. What is the function of part C.

A. To make food for the plant
B. To hold the plant to the soil
C. To absorb food from the soil
D. To take in water for the plant

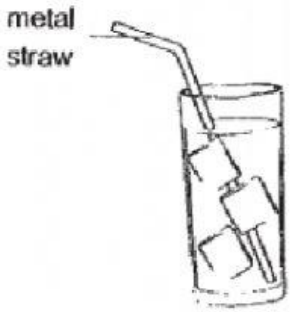
(a) A and B only (c) B and D only
(b) B and C only (d) C and D only ( )

8. Which system in the human body helps to take in oxygen from the surrounding air?

(a) skeletal system (c) circulatory system
(b) digestive system (d) respiratory system ( )

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9. Jenny places a metal straw in a cup of icy cold water.
The straw becomes colder after a while.

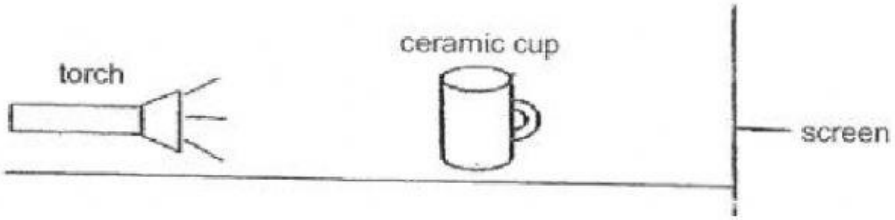


a cup of icy cold water

Which one of the following explains this?

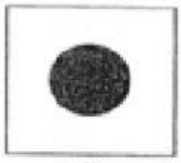
(a) The cold water loses heat to the straw
(b) The straw loses heat to the cold water
(c) The cup gains heat from the cold water
(d) The straw gains heat from the cold water ( )

10. Wei Sheng conducted an experiment in a dark room using the set-up below.

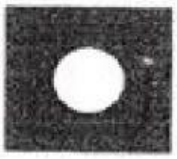


Which one of the following would likely be seen on the screen?

(a) 

(c) 

(b) 

(d)  ( )

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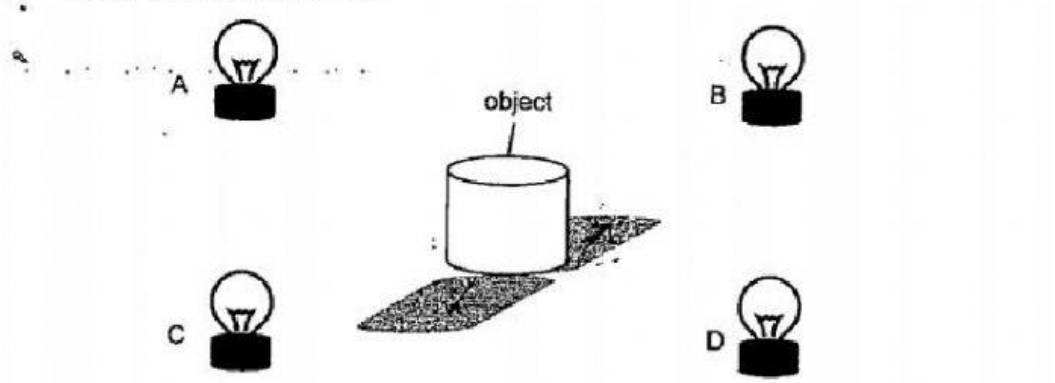
11. Shaun fried an egg on a pan.



He is able to hold the hot pan using the wooden handle. This is because wood is a _____.

(a) light material
(b) flexible material
(c) poor conductor of heat
(d) good conductor of heat ( )

12. Study the diagram below.



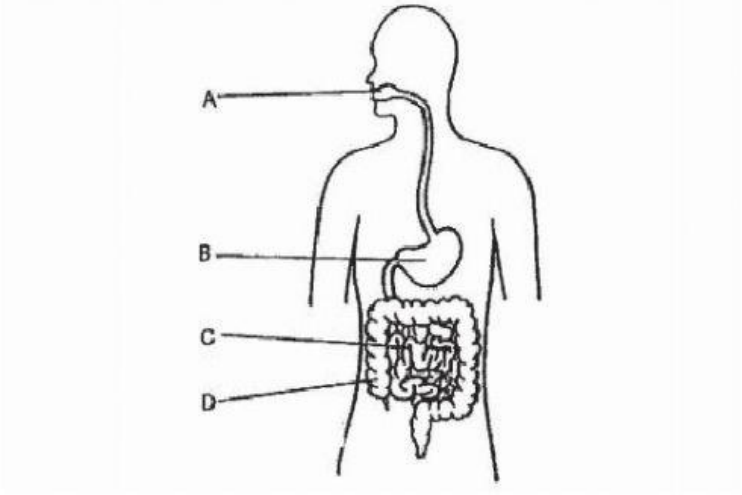
An object is placed at the center of four light bulbs, A, B, C and D. Which light bulb(s) is/are switched on to form the shadows shown in the diagram.

(a) A and B only
(b) B and C only
(c) B and D only
(d) C and D only ( )

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The diagram shows the human digestive system. Answer question 13 and 14.



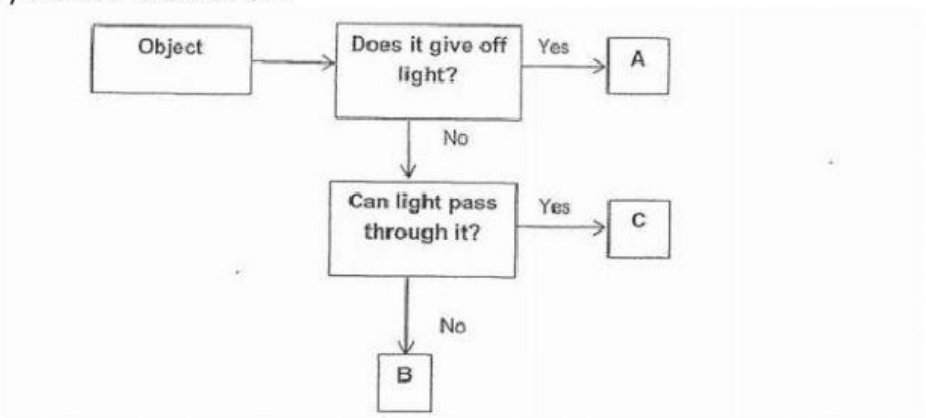
13. Which part, A, B, C or D in the digestive system represents the start of the digestion process?

(a) A (c) C
(b) B (d) D ( )

14. Which part, A, B, C or D in the digestive system does not produce digestive juices?

(a) A (c) C
(b) B (d) D ( )

15. Study the flow chart below.



Which one of the following statements is true?

(a) Both objects A and B give off light.
(b) Both objects B and C do not give off light.
(c) Object A does not give off light but object C does
(d) Object B allows light to pass through but not object C. ( )

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Section B. Open-ended Questions.

16. Look at the pictures below. Choose the correct answer if they are sources of light, sources of heat or they are not only sources of light but also sources of heat.





17. Decide whether these things are transparent, translucent or opaque. Choose the correct answer.


magnifying glass


sunglasses


glasses


tree


tracing paper


school bag

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18. Write the parts of the plants that we eat. (10pts)

roots	stem	leaves	seeds	flowers	fruits

19. The diagram below shows a beaker of water.



Fill in the blanks using the correct word in the box.

Liquid	solid	gas	increases
decreases	remain unchanged	gained	lost

a. When water is boiled, its temperature _____.

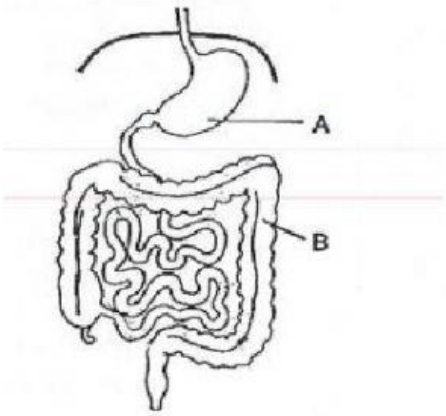
b. The beaker of water is put into a freezer. After some time, the water will change its state to become _____.

c. When the temperature of the water in the beaker increases, the water has _____ heat.

d. When the temperature of the water in the beaker decreases, the water has _____ heat.

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20. The diagram below shows one of the systems of the human body. (12pts)



a. Name the body system shown above.

_____

b. Name the part labelled A.

_____

c. Name the part labelled B.

_____

e. State one difference between the two organs A and B.

A: _____

B. _____

d. Anna draws part X where food is completely digested in the diagram.
What is X?

_____

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