Test:	(2020) Primary 5 Science (Term 4) - Raffles	
Points:	64 points	
Name:		Score:
Date:		
Signature:		
	e choice answers with a cross or tick:	
Only selec	t one answer	
Can selec	t multiple answers	

Question 1 of 62

Primary 5 Science (Term 4)

2 pts

For each question, four options are given. One of them is the correct answer.

The characteristics of organisms A and B are shown in the table below.

	Orga	nism
Characteristic	Α	В
Has spores	Yes	Yes
Makes its own food	No	Yes

Which of the following organisms are A and B?

	A	В	
1)	fern	mushroom	
2)	moss	tomato plant	
3)	mushroom	fern	
4)	tomato plant	moss	

\cap	A)	1

⁽ B) 2

C) 3

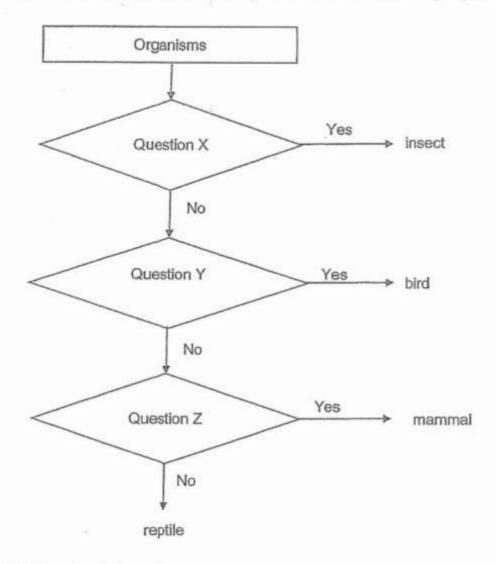
OD) 4

Question 2 of 62

Primary 5 Science (Term 4)

2 pts





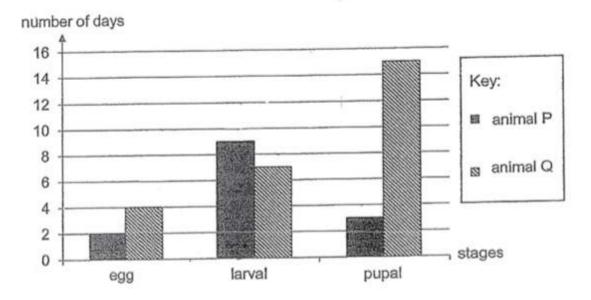
Which of the following is correct?

	Question X	Question Y	Question Z
(1)	Does it have hard outer covering?	Does it have a beak?	Does it lay eggs?
(2)	Does it have wings?	Does it have hard outer covering?	Does it lay eggs?
3)	Does it have feathers?	Does it have wings?	Does it give birth to young alive?
(4)	Does it have six legs?	Does it have feathers?	Does it give birth to young alive?

- **A)** 1
- **B)** 2
- **C**) 3
- **D**) 4

2 pts

The graph below shows the number of days spent in each stage of life cycle of animals P and Q.



Based on the graph above, on which day will animals P and Q start the stage where they feed the most respectively?

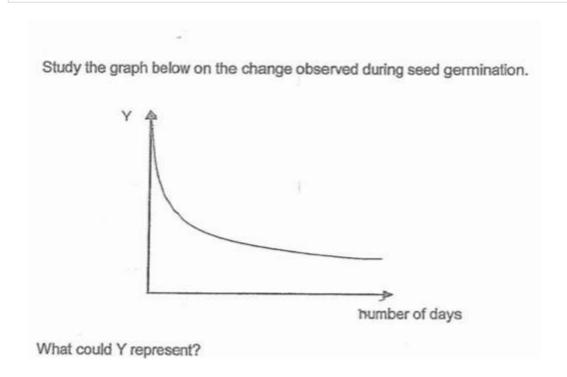
	Animal P	Animal Q
(1)	2 nd day	4 th day
(2)	3 rd day	5 th day
(3)	8 th day	7 th day
(4)	12th day	8 th day

- **A**) 1
- **B**) 2
- **C**) 3
- OD) 4

Question 4 of 62

Primary 5 Science (Term 4)

2 pts



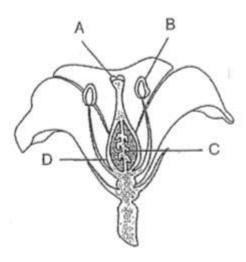
- A) Mass of the seedling
- B) Height of the seedling
- OC) Mass of the seed leaf
- O) length of the roots

Question 5 of 62

Primary 5 Science (Term 4)

2 pts

Lucy conducted an experiment using two insect-pollinated flowers, X and Y, from the same plant. The diagram below shows the cross-section of one of the flowers. A, B, C and D are parts of the flower.



cross-section of the flower

She removed a part from flower X and another part from flower Y. She observed the development of the flower over time and recorded it in the table below.

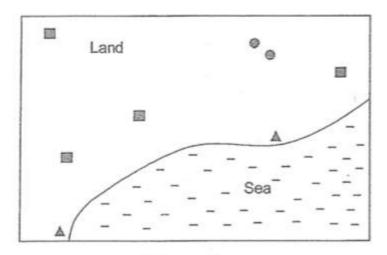
Flower	Development of fruit
X	yes
Y	no

Which of the following shows the parts removed from the flowers?

	Flower X	Flower Y
(1)	Α	В
(2)	С	D
(3)	С	В
(4)	В	D

- **A**) 1
- B) 2
- **C**) 3
- OD) 4

Diagram 1 below shows the distribution of the plants C, D and E on a piece of land.



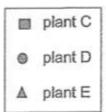
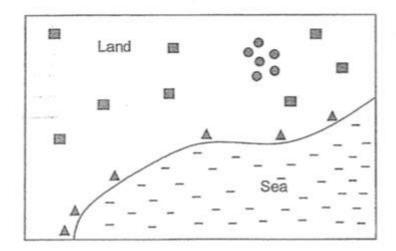


Diagram 1

Diagram 2 below shows the number of plants on the same piece of land after one year.



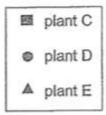


Diagram 2

Which of the following shows the correct methods of seeds dispersal for plants C, D and E?

r	7	- 1
	-	- 1
٩.		•

(2)



(4)

Plant C	Plant D	Plant E
splitting	animals	wind
wind	water	animals
animals	splitting	water
water	wind	splitting

- OA) 1
- B) :

- **C**) 3
- OD) 4

Question 7 of 62

Primary 5 Science (Term 4)

2 pts

The diagram below shows a plant growing in the soil.



Based on the observation above, which of the following statement(s) about the plant is/are correct?

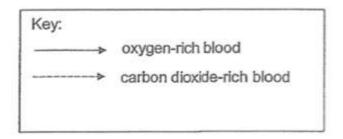
- (A) It has a weak stem.
- (B) It can make its own food.
- (C) It reproduces by spores.
- A) B only
- **B)** A and B only
- OC) A and C only
- OD) A,B and C

Question 8 of 62

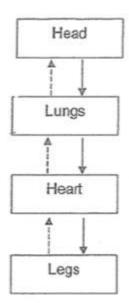
Primary 5 Science (Term 4)

2 pts

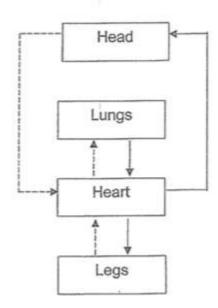
Which of the following correctly represents the direction of blood flow to certain parts of the human body?



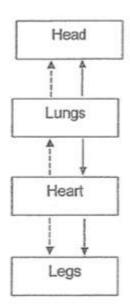


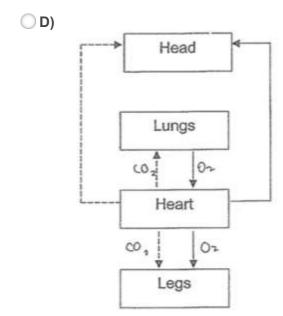


(B)



(C)





2 pts

The diagram below shows a person swimming in the pool.



Which of the following shows the systems required to work together to enable him to swim?

Systems				
Digestive	Circulatory	Respiratory	Muscular	Skeleta
			7	7
	1	1		7
1		7		1
1	1	7	7	1

- **A**) 1
- (B) 2
- **C**) 3
- **D)** 4

Question 10 of 62

Primary 5 Science (Term 4)

2 pts

The table below shows the presence of the part(s) in three cells, X, Y and Z indicated by the tick ($\sqrt{}$).

Part	Х	Y	Z
Nucleus	1	√	
Cytoplasm	1	√	√
Chloroplast			
Cell wall	4		
Cell membrane	1	√	1

Which of the following is/are animal cells?

only

- OB) Yonly
- OC) Y and Z only
- **D)** X, Y and Z only

Oi	Jes	tio	n 1	11	of	62
w	162	HU			OI	DZ

Primary 5 Science (Term 4)

2 pts

Which of the following statements state the difference between the inhaled and exhaled air from a human at room temperature correctly?

A Inhaled air is cooler than exhaled air

- B Exhaled air has less oxygen than inhaled air
- C Inhale air has less water vapour than exhaled air
- D Exhaled air has more dust particles than inhaled air

O	_	_	_	
(A (Α	and	C	only

- **B)** B and D only
- OC) A, B and C only
- **D)** B, C and D only

Question 12 of 62

Primary 5 Science (Term 4)

2 pts

Mei Yee conducted an experiment to find out the rate of heartbeats in three different animals P, Q and R. She used a live and dead specimens of each animal in her investigation. Then she recorded her findings in the table below.

Animals	Р	Р	Q	Q	R	R
Live or Dead	Live	Dead	Live	Dead	Live	Dead
Mass (kg)	1	1	5	5	90	90
Number of heartbeats per minute	205	0	192	0	60	0

Based on her findings, which of the following statements are true?

- A There is no heartbeat in a dead animal.
- B Live animal P has the greatest number of heartbeats per minute.
- C The greater the mass of a live animal, the fewer the number of heartbeats per minute.

\bigcirc A) A	only

- B) A and C only
- OC) B and C only
- OD) A, B and C

Question 13 of 62

Primary 5 Science (Term 4)

2 pts

The following table compares the human circulatory system and the plant transport system.

121	Plant transport system	Human circulatory system		
Α	The water transport system extend from the roots to the other parts of the plant.			
В	Oxygen is taken in through the chloroplasts.	Gaseous exchange occurs in the lungs.		
С	Food is transported from the leaves to the rest of the plant by the food-carrying tubes.	The blood vessels transport oxygen-rich blood, digested food and water to the rest of the body.		

Which of the following statements are correct?

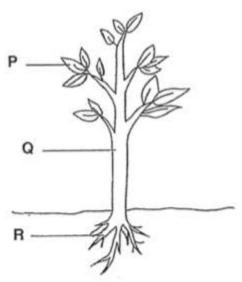
- A) A only
- B) B only
- OC) A and C only
- **D)** B and C only

Question 14 of 62

Primary 5 Science (Term 4)

2 pts

The diagram shows parts of a plant P, Q and R.

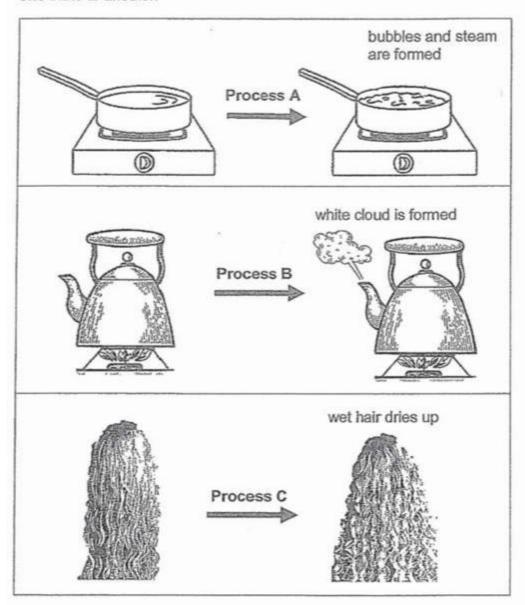


Which of the following part(s) of the plant contain(s) water-carrying tubes?

- A) Ronly
- **B)** P and Q only
- OC) Q and R only
- OD) P, Q and R

2 pts

The diagrams below show some processes involved when water changes from one state to another.



What are processes A, B and C?

	Process A	Process B	Process C
1)	Boiling	Condensation	Evaporation
2)	Evaporation	Condensation	Boiling
3)	Condensation	Boiling	Evaporation
(4)	Evaporation	Melting	Boiling

- **A**) 1
- **B**) 2
- (C)

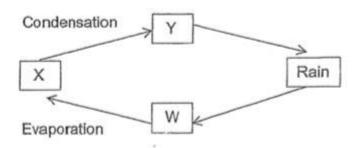
OD) 4

Question 16 of 62

Primary 5 Science (Term 4)

2 pts

The diagram below shows the water cycle. The arrows represent different processes in a water cycle.



At which stage(s), W, X or Y, in the water cycle, is water in the liquid state?

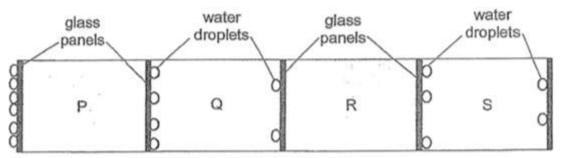
- A) Wonly
- **B)** X only
- C) W and Y only
- **D)** X and Y only

Question 17 of 62

Primary 5 Science (Term 4)

2 pts

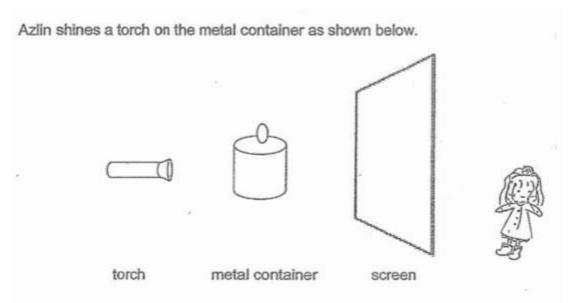
Four rooms, P, Q, R and S, were separated by glass panels. Water droplets appeared on the different sides of the glass panels as shown in the diagram below.



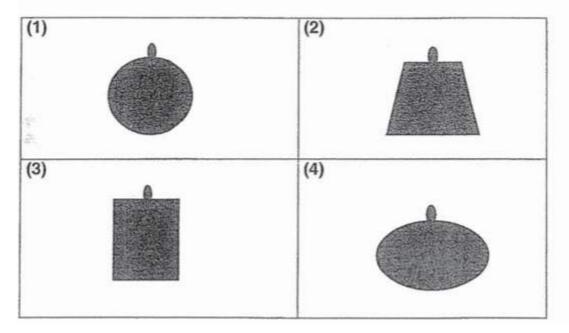
In which room was the temperature the lowest?

- (A) P
- (B) Q
- OC) R
- (D) S

2 pts

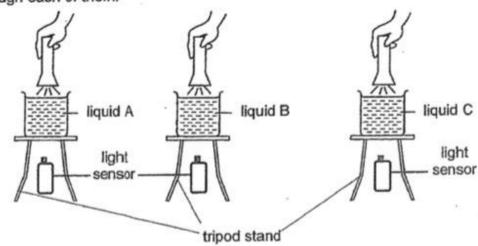


Which one of the following shows the shadow of the metal container cast on the screen?



- A) 1
- **◯B)** 2
- ∪C) 3
- OD) 4

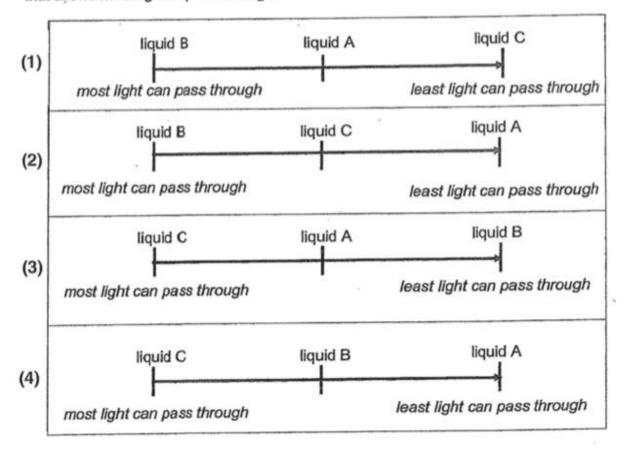
Siti placed 200 ml of different liquids, A, B and C, in three identical beakers. She then placed each beaker on identical tripod stands and shone the identical torch through each of them.



She recorded the amount of light detected by the light sensor in the table below:

	Amount of light (lux)
Liquid A	Liquid B	Liquid C
100	500	0

Based on the above results, arrange the liquids A, B and C starting with the one that allows most light to pass through.

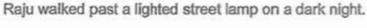


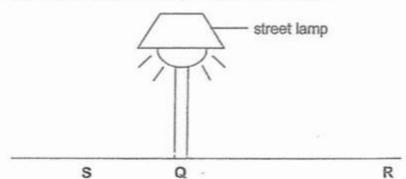
- **B)** 2
- **C)** 3
- **D)** 4

Question 20 of 62

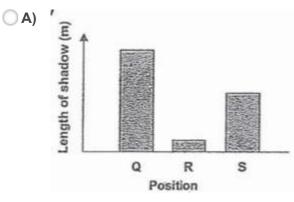
Primary 5 Science (Term 4)

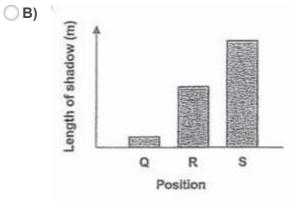
2 pts

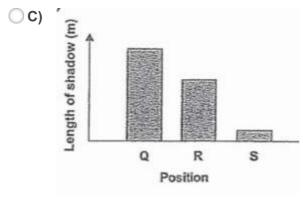




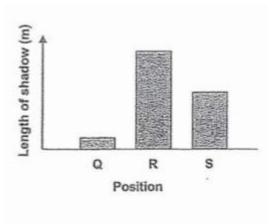
Which of the following graphs best represents the changes in the length of Raju's shadow when he was at positions Q, R and S, respectively?







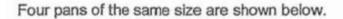
(D)

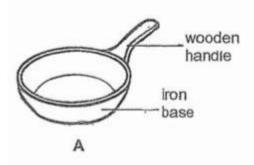


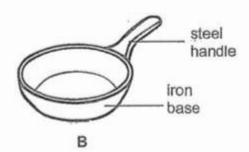
Question 21 of 62

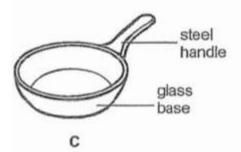
Primary 5 Science (Term 4)

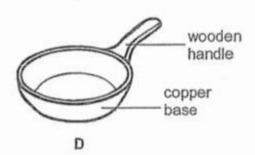
2 pts









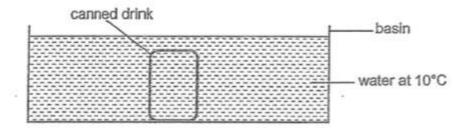


Which two pans can be used to show that steel is a better conductor of heat?

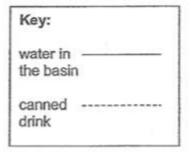
- A) A and B
- B) A and C
- OC) B and C
- OD) C and D

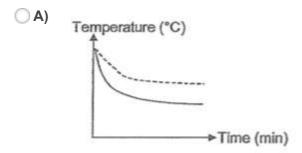
2 pts

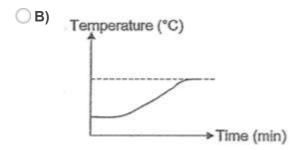
A canned drink, at room temperature, is placed into a basin of water at 10°C as shown below.

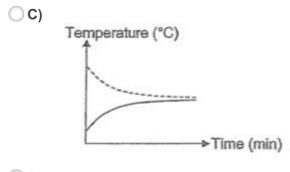


Which of the following graphs represent the changes in the temperatures of the liquids in the basin and in the can?

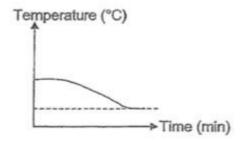








(D)

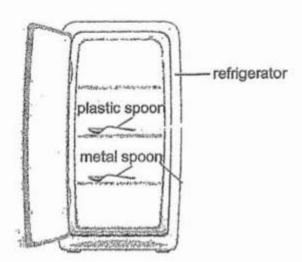


Question 23 of 62

Primary 5 Science (Term 4)

2 pts

Jill placed a plastic spoon and a metal spoon in a refrigerator overnight. When she removed both spoons at the same time, the metal spoon felt colder than the plastic spoon.



Which of the following explains why her hands felt that the metal spoon was colder than the plastic spoon?

- A The temperature of the metal spoon was lower than the plastic spoon.
- B Jill's hand lost heat to the metal spoon more quickly than to the plastic spoon.
- C The heat from the plastic spoon was conducted to Jill's hand more quickly.
- A) Bonly
- **B)** A and B only
- C) B and C only
- **D)** A, B and C

Question 24 of 62

Primary 5 Science (Term 4)

2 pts

Don wanted to find out how the arrangement of bulbs in a circuit affects the brightness of the bulbs. Which variables should he keep the same for a fair experiment?

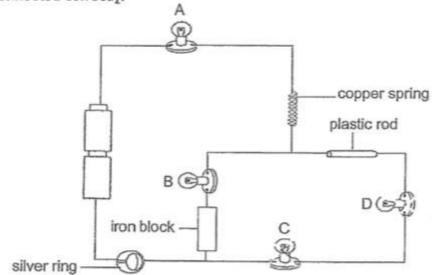
- A Number of bulbs
- B Brightness of bulbs
- C Number of batteries
- D Arrangement of bulbs
- **A)** A and C only
- **B)** B and D only
- C) A, C and D only
- **D**) A, B, C and D

Question 25 of 62

Primary 5 Science (Term 4)

2 pts

The diagram below shows four bulbs, A, B, C and D, in a circuit that is connected correctly.



Which of the following bulbs will not light up?

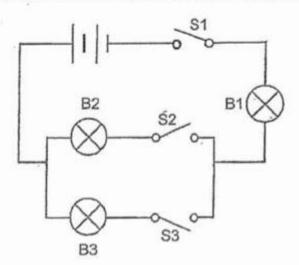
- **A)** A and B only
- **B)** C and D only
- **C)** A, C, D only
- **D**) A, B, C and D

Question 26 of 62

Primary 5 Science (Term 4)

2 pts

Identical batteries and bulbs are used to set up the circuit below.



Which one of the following statements about the circuit is correct?

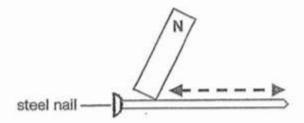
- A) B1 will light up when either B2 or B3 is lighted
- B) At least one bulb will light up when only S1 is closed
- C) Electricity will flow through the circuit as long as one switch is closed
- OD) Electricity will flow through the circuit only when all the switches are closed

Question 27 of 62

Primary 5 Science (Term 4)

2 pts

June was trying to make a temporary magnet with a steel nail. She held a magnet on the N-pole and moved it up and down along the nail as shown by the arrows below.

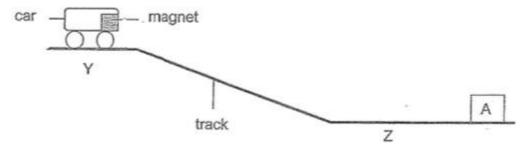


When she placed the steel nail near some pins, nothing happens. What could be the reason?

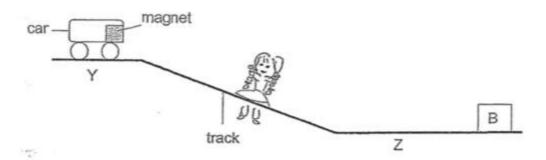
- A) She used electricity to make the magnet
- She used a nail made of non magnetic material.
- C) She used the wrong pole of the magnet to stroke the nail
- She did not stroke the steel nail repeatedly in one direction.

2 pts

Rina set up an experiment as shown below. When she released the car from Y, the car travelled down the track and then moved a short distance backwards before stopping at Z. The car did not touch object A at the end of the track.



When she placed object B at the end of the track and released the car from Y, the car moved towards object B and was attached to it.



Based on the information above, what could objects A and B possibly be?

	A	В
(1)	iron block	plastic block
(2)	bar magnet	steel block
(3)	wooden block	iron block
(4)	electromagnet	copper block

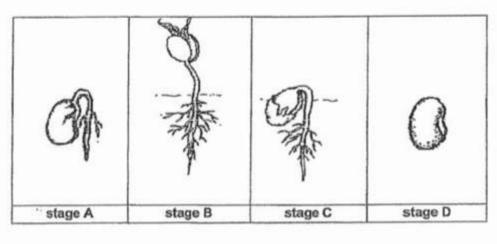
- OA) 1
- **B**) 2
- **C**) 3
- OD) 4

Question 29 of 62

Primary 5 Science (Term 4)

1 pt

The diagram below shows the various stages of process R taking place in the life cycle of a plant.



(a) Name process R.

[1]

Question 30 of 62

Primary 5 Science (Term 4)

1 pt

Match the options below in the correct order of growth:

1. [] D

A. 3

2. [] A

B. 4

3.[] C

C. 1

4.[] B

D. 2

Question 31 of 62

Primary 5 Science (Term 4)

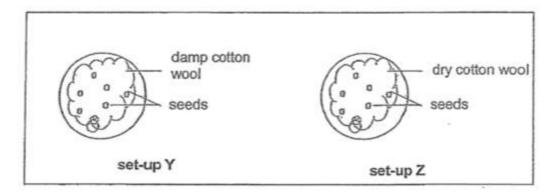
1 pt

Choose the conditions needed for process R to take place

- A) water
- **B)** sunlight
- C) air
- **D)** warmth

0 pts

Cheryl prepared two identical plates containing an equal number of seeds Each plate had an equal amount of cotton wool. The cotton wool in set-up Y was damp while the one in set-up Z was dry as shown in the diagrams below. Only set-up Y was watered daily.



Cheryl placed both set-ups, Y and Z, in an enclosed cupboard for three weeks.

After three weeks, Cheryl noticed that young seedlings which developed in only one of the set-ups had died.

(d) In which set-up did the young seedlings die at the end of the experiment? Explain your answer. [2] Question 33 of 62

Primary 5 Science (Term 4)

0 pts

Emily found a flower of plant M. She noticed that the reproductive parts of the flower were hidden in the flower as shown below.



flower of plant M

(a) In what way is this flower most likely to be pollinated by?

[1]

Question 34 of 62

Primary 5 Science (Term 4)

0 pts

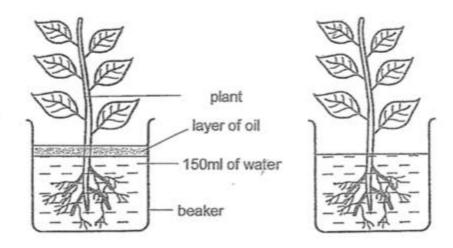
She recorded her observations based on four characteristics of the flower of plant M in a table.

Circle the characteristics most likely to be present in the flower of plant M. [2]

	Charac	teristics
Colour of flower	bright and colourful	dull and white
Size of petals	small	large
Smell of flower	no smell	strong smell
Texture of stigma	feathery	sticky

0 pts

Mrs Lim wanted her students to find out if the roots of a plant took in water. She prepared two set-ups as shown below.



experimental set-up

incomplete control set-up

(a) Without removing any part(s) of the plant in the incomplete control set-up, draw and label in the diagram below two changes that need to be made to the control set-up to complete it. [2]



(b) State the purpose of the completed control set-up in (a).

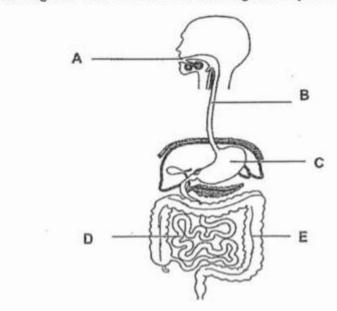
[1]

Question 37 of 62

Primary 5 Science (Term 4)

0 pts

The diagram below shows the human digestive system.



(a) Circle the correct letter in the diagram above that represents the part of the system where digestion is completed.

[1]

Question 38 of 62

Primary 5 Science (Term 4)

0 pts

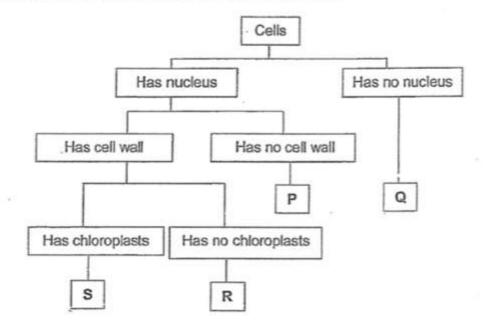
- b) Describe how the human digestive system and circulatory system work together to provide energy needed by the body
- i.Human digestive system
- ii. Human circulatory system

Question 39 of 62

Primary 5 Science (Term 4)

0 pts

The flow chart below shows the classification of cells.



Based on the information above, answer the following questions.

(a) State one difference between cells Q and S.

[1]

Question 40 of 62

Primary 5 Science (Term 4)

0 pts

b) Which cell P, Q, R or S is likely to be a root cell? Give a reason for your answer

Question 41 of 62

Primary 5 Science (Term 4)

0 pts

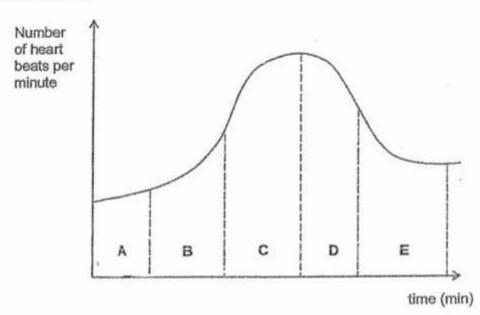
c) A plant will not be able to survive if cell S is not present. Explain why

Question 42 of 62

Primary 5 Science (Term 4)

l pt

Sasha's training session consists of three main segments which are the warm-up, actual running and cool down. The graph below shows her heart rate during her training session.



(a) Which part of the graph best represents the change in Sasha's heart rate when she was running at the maximum speed?

Put a tick (√) in the correct box.

[1]

- (A) A
- **○B**) B
- ○**c**) c
- (**D**) D
- ○E) E

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0 pts

b) Based on the graph above, explain the increase in her heart rate from part A to C.

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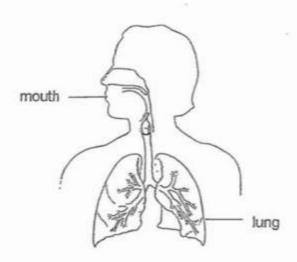
Primary 5 Science (Term 4)

0 pts

The diagrams below show parts of the fish and the human respiratory systems.



Fish respiratory system



Human respiratory system

- (a) Name the part where the gaseous exchange takes place in each of the respiratory system.
- (i) Fish respiratory system:

(ii) Human respiratory system:

Question 45 of 62

Primary 5 Science (Term 4)

0 pts

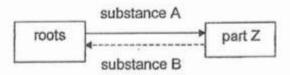
b) Explain how the increased exposed surface area of the part identified in a(i) helps the fish in terms of the gaseous exchange

Question 46 of 62

Primary 5 Science (Term 4)

1 pt

The diagram below shows the movement of substances in parts of a plant.



(a) Gaseous exchange for the plant occurs through part Z. Identify part Z. [1]

Part Z:

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1 pt

What are the substances?

A: _____

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1 pt

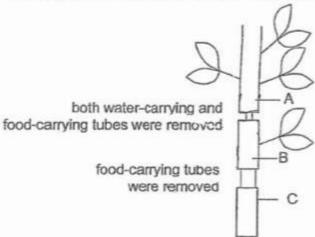
B: ____

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0 pts

The diagram shows parts of the stem which were cut and removed.

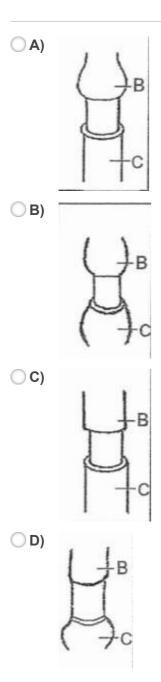


(a) After one week, it was observed that some leaves died. State the part (A, B or C) where the leaves died. Explain your answer.[2] Question 50 of 62

Primary 5 Science (Term 4)

1 pt

After some time, observations were made at parts B and C of the stem . Which is the correct diagram that shows the observation correctly.

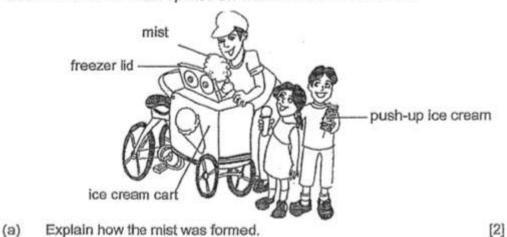


Question 51 of 62

Primary 5 Science (Term 4)

0 pts

An ice cream cart has a freezer that stores ice cream for sale. Mist was seen when the ice cream man opened the freezer lid as shown below.



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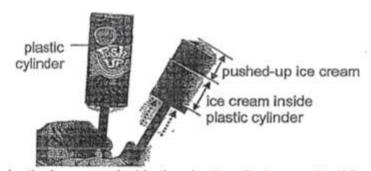
Primary 5 Science (Term 4)

0 pts

b) The mist disappeared after a short while. Explain why

0 pts

Two children bought an ice cream each. They observed that the ice cream inside the plastic cylinder, as shown below, remained frozen longer than the ice cream that was pushed up.



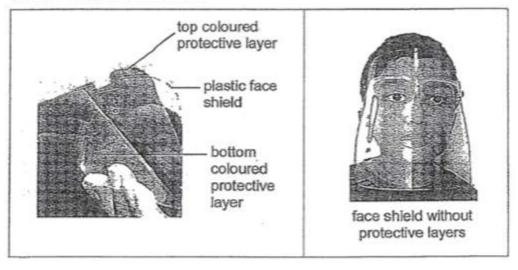
(c) Explain why the ice cream inside the plastic cylinder remained frozen longer. [1]

0 pts

Azim read a book with a face shield on, during the Covid-19 pandemic as shown below.



He complained that he could not read the words clearly even though he has perfect eyesight. He soon realised that he had not removed the top and bottom coloured protective layers on the shield.



After removing the coloured protective layers on the shield, Azim could easily read his book.

 (a) Explain why Azim was not able to clearly see the words in his book at first
[1] Question 55 of 62

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0 pts

Azim later climbed up many flights of stairs. His face felt hot and it took a longer time to cool down with the plastic face shield on than without it.

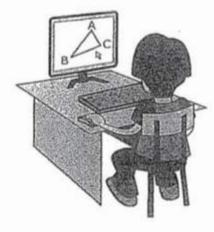
b) Explain why Azim's face took a longer time to cool down

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0 pts

That evening, Azim was completing his online homework in a dark room as shown below.

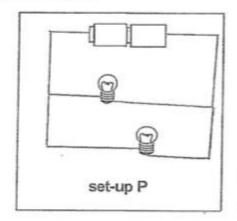


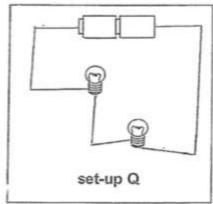
(c) Why was Azim able to see the computer screen in the dark?

[1]

0 pts

Jane prepared two set-ups, P and Q, using identical batteries and light bulbs as shown below.





(a) In the diagrams above, draw in the wires in each set-up such that the bulbs in set-up P will be brighter than the ones in set-up Q.

[2]

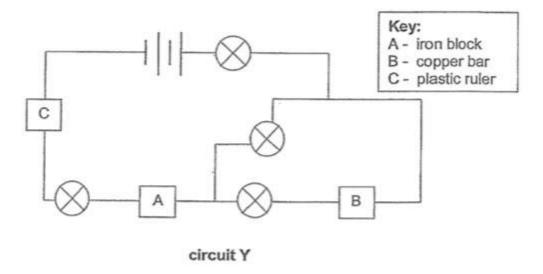
Please type "done" to proceed to the next question

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0 pts

(b) Jane made another circuit Y and connected objects A, B and C to the circuit as shown below. All the bulbs and batteries were in working condition.



(i) She observed that none of the bulbs in circuit Y lit up. Explain why. [1]

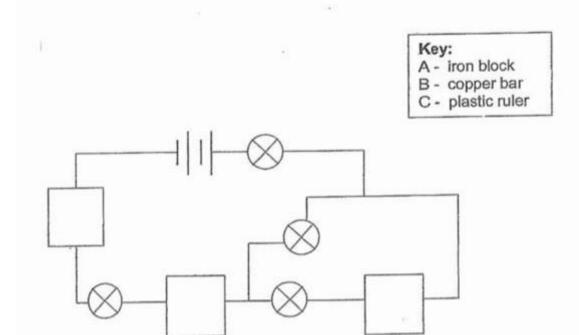
Question 59 of 62

Primary 5 Science (Term 4)

0 pts

(ii) At which positions in the circuit below should Jane place objects A, B and C so that most number_of bulbs could be lit?

Write A, B or C in each of the boxes provided below. Use each object ONCE only. [1]

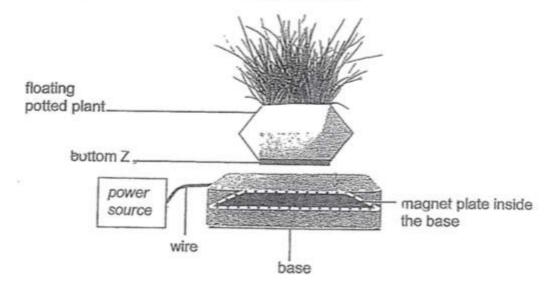


Question 60 of 62

Primary 5 Science (Term 4)

0 pts

The diagram below shows a floating potted plant.



The floating potted plant consists of a base containing a magnet plate and a special bottom Z, as shown in the diagram above. Bottom Z must be present and the power source must be switched on for the potted plant to float.

(a) Identify what bottom Z is.

[1]

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0 pts

b) How does the object you have identified in (a) allow the potted plant to float above the base?

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0 pts

c) Suggest a way that would allow a floating plant with a greater mass to stay afloat above the base