METHODIST GIRLS' SCHOOL

Founded in 1887



END-OF-YEAR EXAMINATION 2015 PRIMARY 5 SCIENCE

BOOKLET A1

Total Time for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

Do not turn over this page until you are told to do so.
Follow all instructions carefully.
Answer all questions.
Shade your answers in the Optical Answer Sheet (OAS) provided.

Name:	_ ()
Class: Primary 5		
Data : 20 October 2015		

For each question from 1 to 15, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet (OAS). [30 marks]

1. Which one of the following options below correctly describes what will happen to our ribcage and diaphragm when we breathe in and breathe out?

Breathe in		Breathe out	
Ribcage	Diaphragm	Ribcage	Diaphragm
Moves out and upwards	Moves downwards	Moves in and downwards	Moves downwards
Moves out and upwards	Moves upwards	Moves in and downwards	Moves downwards
Moves out and upwards	Moves downwards	Moves out and upwards	Moves upwards
Moves out and upwards	Moves downwards	Moves in and downwards	Moves upwards

- 2. What is the function of the large intestine in our digestive system?
 - (1) It digests water and food.
 - (2) It absorbs the digested food into the blood.
 - (3) It removes water from the undigested food.
 - (4) It passes the undigested food out of the body.

3. The pictures below show a mealworm larva and an adult beetle.

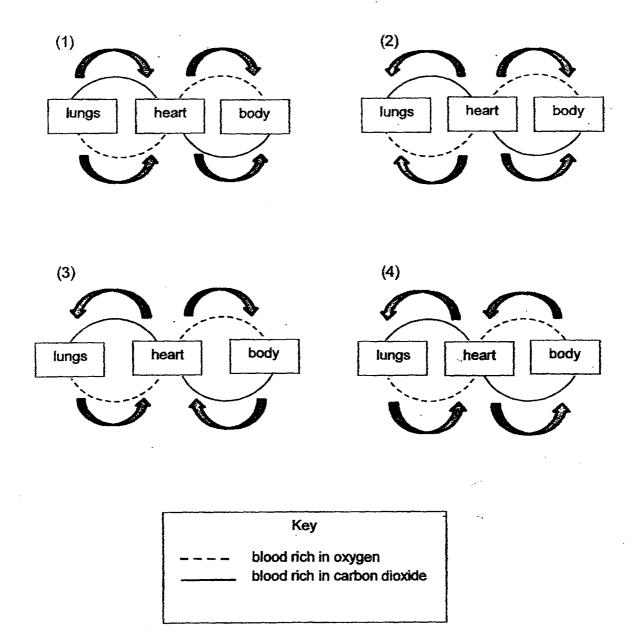




Which part(s) below can be observed on the adult only but not on a mealworm?

- A: legs
- B: wings
- C: antennae
- D: three body parts
- (1) A only
- (2) B only
- (3) A and C only
- (4) B, C and D only

4. Which diagram below correctly shows the direction in which blood flows in the human circulatory system?



5. Study the table below carefully.

Activity	Number of heart beats per min	Number of breaths per min
R	70	32
S	120	55

What can we conclude from the above table?

- A: Our heart beats faster during activity S than activity R.
- B: We take in more oxygen for activity R than for activity S.
- C: Our body needs more energy for activity S than for activity R.
- D: We take in more breaths of air during activity R than activity S.
- (1) A and B only
- (2) A and C only
- (3) B, C and D only
- (4) A, B, C and D

- 6. Blood entering the small intestine carries less _____ than the blood leaving it.
 - A: oxygen
 - B: digested food
 - C: carbon dioxide
 - (1) A and B only
 - (2) A and C only
 - (3) B and C only
 - (4) A, B and C
- 7. Study the three cells, P, Q, and R below.







Cell P

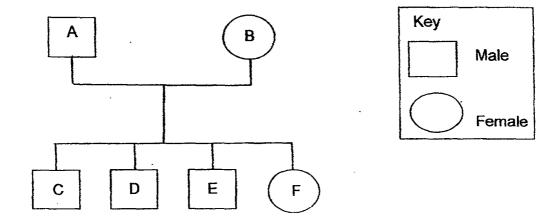
Cell Q

Cell R

Which of the following are found in all the three cells?

- (1) cell wall and nucleus
- (2) cytoplasm and nucleus
- (3) cytoplasm and chloroplast
- (4) cell membrane and chloroplast

8. The diagram below shows a family tree.



The following table below shows the characteristics that are present in the family members.

	Characteristics			
Family members	Attached ear lobes	Single eyelids	Curly hair	Tongue rolling
Α	✓		· 🗸	
В		✓		√
С		1	√	✓
D	1		√	√
E	✓	✓	✓ -	
F	1		√	1

Which child inherited only one trait from the father?

- (1) C
- (2) D
- (3) E
- (4) F

9. The gills and mouth are two organs in the fish body.



Which one of the following statements on the functions of the gills and the mouth is true?

	Gills	Mouth
(1)	Remove blood containing carbon dioxide	Absorbs carbon dioxide into the body
(2)	Transport oxygen to all parts of the body	Removes only carbon dioxide from the body
(3)	Large surface area for optimum contact with water	Opens and closes to allow water to enter the mouth
(4)	Removes carbon dioxide through the gill cover	Exchange of gases takes place in the mouth

10. Which of the following characteristics can be used to differentiate between insects and birds?

A: body covering

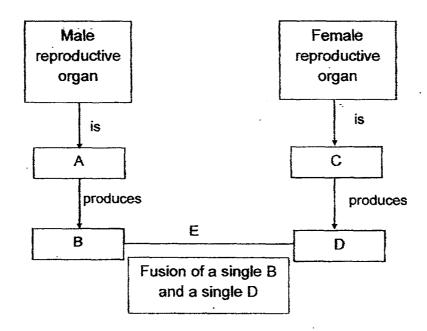
B: presence of wings

C: number of body parts

D: number of stages in the life cycle

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

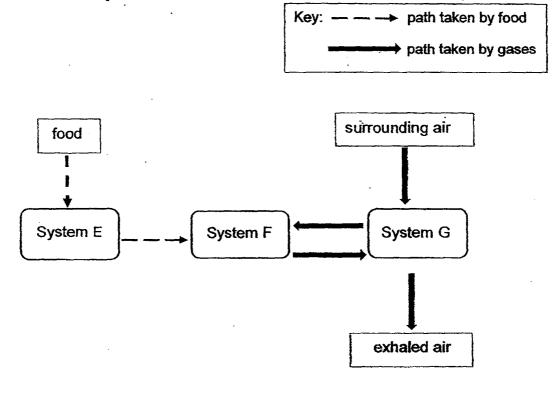
11.



What do A, B, C, D and E represent?

	A	В	С	D	E
(1)	testis	sperms	ovary	eggs	Fertilisation
(2)	penis	sperms	womb	eggs	Reproduction
(3)	sperms	testis	eggs	очагу	Fertilisation
(4)	testis	sperms	ovary	eggs	Reproduction

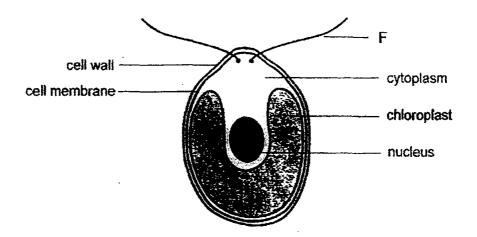
12. The diagram below shows how food and various gases are transported in the human body.



Which one of the following options identifies Systems E, F and G?

	System E	Syştem F	System G
(1)	digestive	respiratory	circulatory
(2)	respiratory	digestive	circulatory
(3)	digestive	circulatory	respiratory
(4)	circulatory	respiratory	digestive

- 13. Which one of the following statements is incorrect?
 - (1) The body of an octopus is a system.
 - (2) Digestive juices are found in the circulatory system.
 - (3) The stomata are part of the plant respiratory system
 - (4) The body systems work together to make the body function properly.
- 14. The diagram below shows a single-celled organism which lives in the pond. Part F helps the organism to move about in the water. It has been observed that this organism moves near the surface of the pond only in the day.



Which of the following explain(s) why the organism needs to move to the surface in the day?

- A: It needs to take in oxygen.
- B: It needs to look for food near the surface.
- C: It needs to trap sunlight to photosynthesise.
- (1) A only
- (2) C only
- (3) B and C only
- (4) A, B and C

15. Some students set up an experiment using 4 similar leaves, A, B, C and D, of the same mass each.

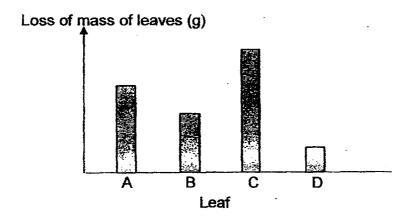
There are openings known as stomata on both the upper and lower surfaces of the leaves. Leaves lose water through the stomata.

They coated some surfaces of the leaves with oil as shown in the table.

	Coated with oil			
Leaf	Upper surface Lower surface			
Α	yes '	no		
В	no	yes		
С	no	no		
D	yes	yes		

Each leaf was weighed and then hung up in an open area.

After four hours, each leaf was weighed again and the loss of mass was recorded. The results are shown in the graph below.



What can the students conclude about the stomata on the leaves?

- (1) There are no stomata on the upper surfaces.
- (2) There are more stomata on the lower surfaces.
- (3) There are more stomata on the upper surfaces.
- (4) There are equal numbers of stomata on the upper and lower surfaces of leaves.

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END-OF-YEAR EXAMINATION 2015 PRIMARY 5 SCIENCE

BOOKLET A2

Total Time for Booklets A and B: 1 hour 45 minutes

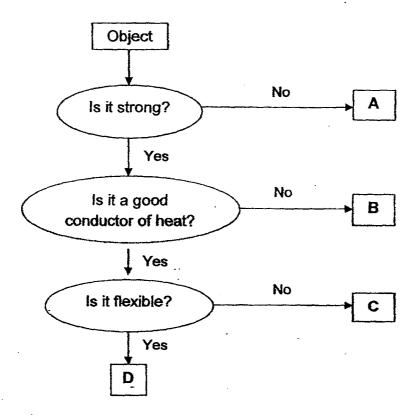
INSTRUCTIONS TO CANDIDATES

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Name:
Class: Primary 5.
Date: 30 October 2015

For each question from 16 to 30, four options are given. One of them is the correct answer. Make your choice (1, 2, 3 or 4). Shade the correct oval on the Optical Answer Sheet (OAS). [30 marks]

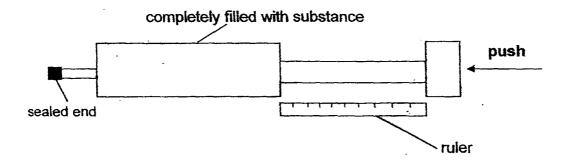
16. The flow chart below shows how things can be classified based on their properties.



Which one of the following correctly identifies A, B, C and D?

	A	В	С	D
(1)	plastic bag	iron nail	steel spoon	porcelain vase
(2)	paper bag	wooden table	iron nail	metal wire
(3)	cotton wool	copper wire	steel fork	glass cup
(4)	writing paper	aluminium foil	plastic bottle	ceramic tile

17. Jinny filled 2 identical syringes completely with different substances, X and Y.



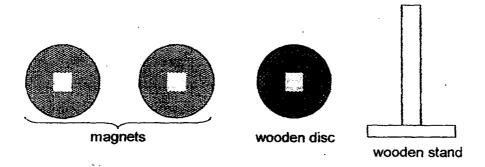
She pushed each syringe as hard as she could with the same strength. She then measured the distance that she could push and recorded the results in the table below.

Substances	Distance pushed	
Х	0 cm	
Y	2.3 cm	

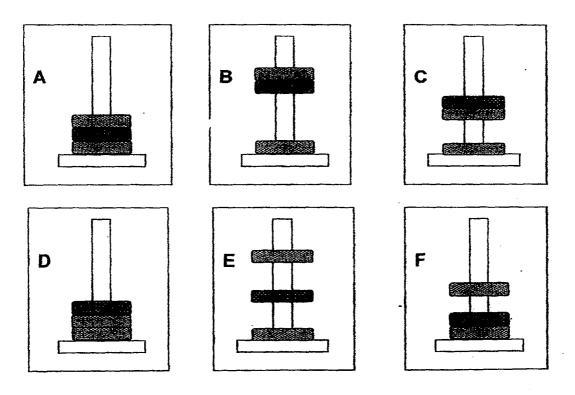
Based only on Jinny's results above, which one of the following statements is correct?

- (1) Both substances are in different states.
- (2) Both substances have different volume.
- (3) Both substances have a definite shape.
- (4) Both substances have no definite volume.

18. The diagram below shows three discs, each with a square hole in the centre. One of the discs is a lightweight wooden disc and the other two are magnets.

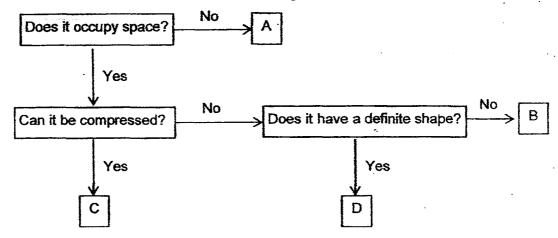


When the three discs are placed one on top of another through the wooden stand, which of the following would be possible observations?



- (1) A and D only
- (2) A, C and D only
- (3) A, C, D and F only
- (4) All of the above

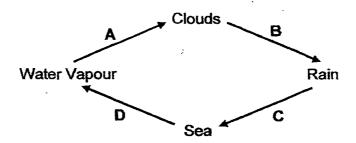
19. Study the flow chart below carefully.



Which letter best represents mist?

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

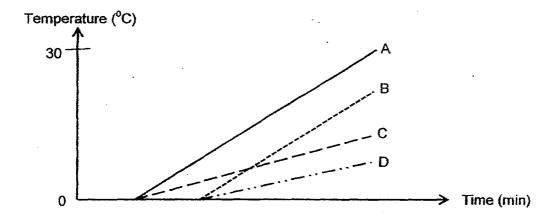
20. The diagram below shows the water cycle.



Which stage(s) of the water cycle involve heat loss?

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

21. Fatimah placed the same amount of crushed ice into four cups of similar sizes made of different materials A, B, C and D. She recorded the temperature of the content in the four cups. The results are shown in the graph below.



Based on the graph above, which one of the following materials can keep hot soup warm for the longest period of time?

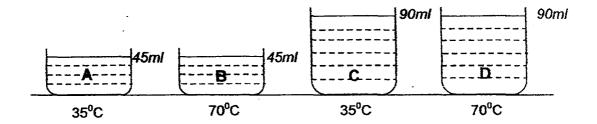
- (1) Material A
- (2) Material B
- (3) Material C
- (4) Material D
- 22. The table below shows the state of four substances, W, X, Y and Z, at different temperatures.

Substance	State of substance at 10°C	State of substance at 50°C	State of substance at 90°C
W	gaseous	gaseous	gaseous
Х	solid	solid	solid
Y	liquid	liquid	gaseous
Z	Solid	Liquid	liquid

Which substance has the highest melting point?

- (1) W
- (2) X
- (3) Y
- (4) Z

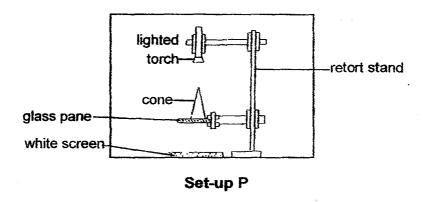
23. Four containers, A, B, C and D, containing water, were heated to the temperature as shown in the diagram below.



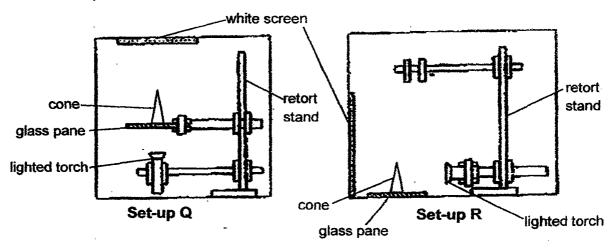
Which of the following statement(s) is/ are true?

- P: The water in container A has the least amount of heat.
- Q: The water in container D has more heat than container B.
- R: The water in containers A and B have the same amount of heat.
- S: The water in containers A and C have the same amount of heat.
- (1) P only
- (2) Sonly
- (3) P and Q only
- (4) Q and R only

24. In Set-up P, an ice-cream cone was placed on a glass pane directly under a lighted torch in a dark room as shown below.



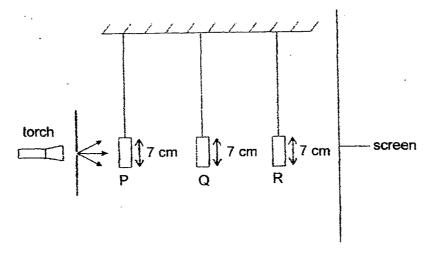
The lighted torch and the screen were then <u>re-positioned</u> as shown in Set-up Q and Set-up R.



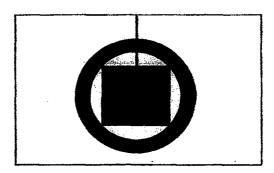
Which one of the following shows the likely shadows of the cone that were cast on the white screens in the 3 set-ups?

	Set-up P	Set-up Q	Set-up R
(1)			
(2)			
(3)	A summer		
(4)			

25. Mr James set up an experiment as shown. He shone light on three shapes P, Q and R made of thin wood. The three different shapes are placed at different distances from the torch.



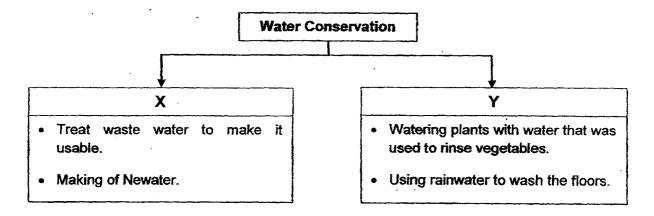
The diagram below shows what was seen on the screen.



Which one of the following correctly represents P, Q and R respectively?

	P	Q	R
(1)	ring	square	diamond
(2)	ring	diamond	square
(3)	diamond	ring	square
(4)	diamond	square	ring

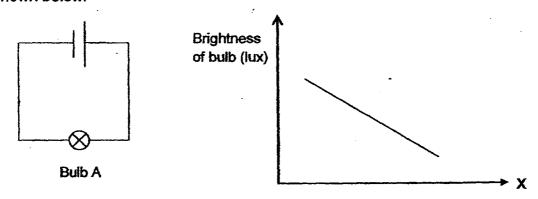
26. Study the classification diagram below.



What ways of water conservation do X and Y represent?

	X	Y
(1)	Recycling	Reducing
(2)	Reducing	Reusing
(3)	Reusing	Recycling
(4)	Recycling	Reusing

27. Mr Raja carried out an experiment using an electric circuit with identical wires, batteries and Bulb A. He tested the brightness of Bulb A by making some changes to the circuit. He presented the results of his experiment in the graph shown below.



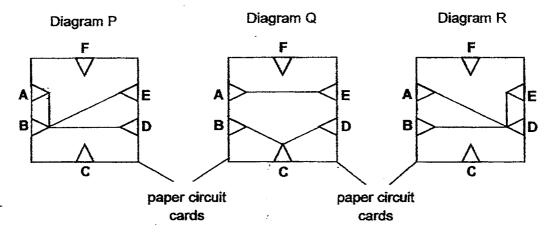
Based on the graph, which one of the following represents variable X?

- (1) Number of bulbs arranged in series
- (2) Number of bulbs arranged in parallel
- (3) Number of batteries arranged in series
- (4) Number of batteries arranged in parallel

28. Johnny tested a paper circuit card and recorded the results in the table below.

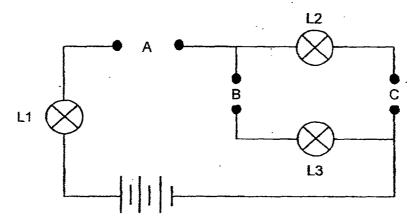
Clips tested	Did the bulb light up?
A and E	Yes
A and D	Yes
B and D	Yes
B and C	No
D and E	Yes
E and F	No

Which of the following diagrams show(s) the possible connections of the clips by wires?



- (1) Ponly
- (2) P and Q only
- (3) P and R only
- (4) Q and R only

29. Mr Kumar set up an electric circuit with three identical bulbs, L1, L2 and L3. He has three rods, X, Y and Z made of unknown materials. He places them in different positions, A, B and C, in the circuit below.



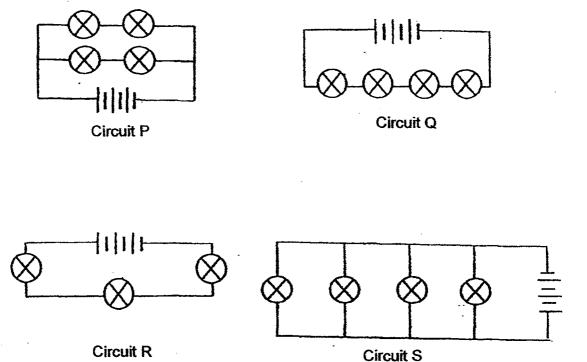
The results of the experiment are recorded in the table below. When any of the bulbs, B1, B2 or B3, lights up during the experiment, a tick (\checkmark) is placed in the box.

Positions where the rods are placed				Bulb	
X	Υ	Z	L1	L2	L3
Α	В	С	√		√
В	С	Α			
С	Α	В	√	√	

Which one of the following options correctly identifies the materials used to make the three rods?

	Rod X	Rod Y	Rod Z
(1)	glass	copper	aluminium
(2)	copper	glass	iron
(3)	glass	plastic	copper
(4)	iron	aluminium	glass

30. Four electric circuits, P, Q, R and S, were set up as shown below. All the identical bulbs and batteries are working properly.



Which one of the following correctly arranges the circuits from the dimmest to the brightest bulbs?

Dimmest —	· · · · · · · · · · · · · · · · · · ·				
Q	R	Р	S		
S	Р	R	Q		
Q	P	S	R		
Р	S	Q	R		
	Q S Q	Q R S P Q P	Q R P R Q P S		

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END-OF-YEAR EXAMINATION 2015 PRIMARY 5 SCIENCE

BOOKLET B1

Total Time for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

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Answer all questions.

Write your answers in this booklet.

Name:		
Class:	Primary 5	
Date:	30 October 2015	

For questions 31 to 37, write your answers in the spaces provided. The numb	er of
marks available is shown in brackets [] at the end of each question or part q	uestion.
[20]	marksl

31. Samy carried out 4 different activities for the same duration. These activities are represented by the letters A, B, C and D. He then measured his breathing rate and pulse rate for each activity. The results are shown in the table below.

Activity	Breathing rate (per minute)	Pulse rate (per minute)
Α	15	66
В	45	130
С	35	106
D	20	70

(a) Match the activities A, B, C and D with the descriptions below. Each activity, A, B, C and D can only be used once.

[2]

Description	Activity
running	·
brisk walking	
strolling	
sitting	

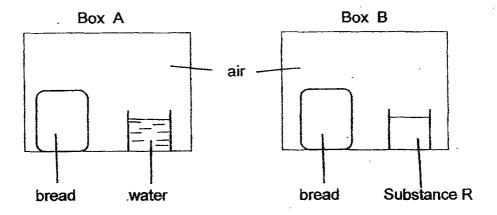
(b)	What is the relationship between his breathing rate and his pulse rate								



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32. Lilian placed 2 slices of bread cut from the same loaf into two identical airtight boxes, A and B.

She placed boxes A and B in a warm place. Substance R absorbs moisture from the air.



(a)	In which box, A or B, would fungus first appear on the bread? Give a reason for your answer.						

(b) The boxes are airtight. How does this make the experiment a fair test? [1]

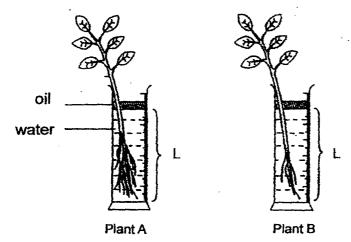
Lilian bought a box of mooncakes. When she opened the box, she found a packet of drying agent as shown in the diagram below.

Silica Gel Do Not Eat Throw Away

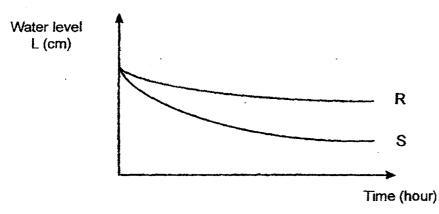
(c)	Why was the drying agent included in the box of mooncakes?								
	•								



(Go on to the next page)



The results are shown below.

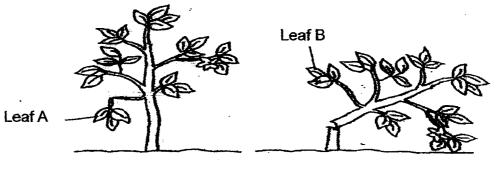


based on the graph above, which line, R or S, represents the results obtained for the plant with more roots? Explain your answer.
What is the purpose of the oil in this experiment?



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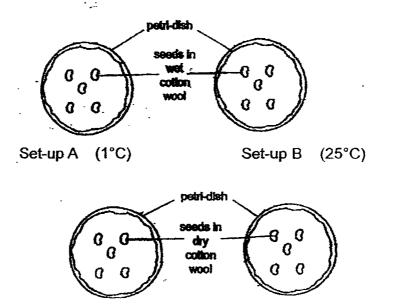
34. The diagram below shows Plant A and Plant B after a storm.



Plant A Plant B

What would be the likely condition	s of Leaf A and Leaf B after a few
	<u> </u>
Give a reason for answer (a).	

35. A group of students wanted to find out how water would affect the germination of seeds. They prepared the set-ups as shown below.



(a)	In which set-up(s) did the seeds germinate?	[1]
	•	

Set-up D (25°C)

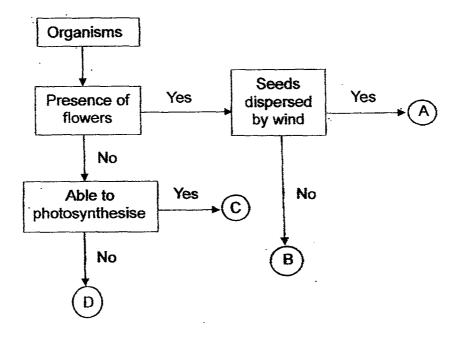
Set-up C (35°C)

- (b) If the students wanted to find out whether temperature affects the germination of the seeds, which two set-ups should they use for a fair test? [1]
- (c) Based on the experiment in (b), list two variables that should be kept the same. [1]

 Variable 1:

Variable 2:



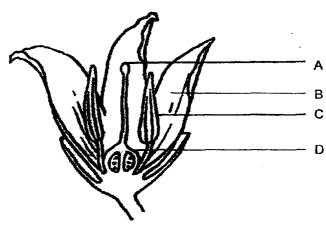


(a)	Which organisms)are likely to reproduce from spores?							
(b)	Explain your answer for (a).	[1]						
(c)	Name a similar characteristic between organisms A, B and C.	[1]						

37. Siti conducted an experiment to find out which parts of the Flower Z shown below were necessary to form a fruit. Flower Z is produced by Plant Z.

She removed two parts of Flower Z. She then transferred some pollen from another flower of the same plant to the remaining parts of Flower Z.

After some time, Flower Z formed a fruit.

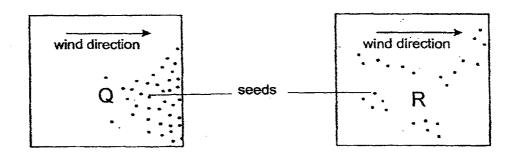


Flower Z

(a)	Which two parts, A, B, C or D, of Flower Z did Siti remove	e such that
	Flower Z could still form a fruit?	[1]



The diagrams below, Q and R, show two different dispersal patterns.



(b) Siti knows that the seeds of Plant Z are dispersed by animals. Which diagram, Q or R, shows the dispersal pattern of Plant Z? Explain your answer.

[2]

·

(c) Explain why it is important for seeds to be dispersed. [1]

3

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METHODIST GIRLS' SCHOOL

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PRIMARY 5 SCIENCE

BOOKLET B2

Total Time for Booklets A and B: 1 hour 45 minutes

INSTRUCTIONS TO CANDIDATES

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Answer all questions.

Write your answers in this booklet.

Name:		(
Class:	Primary 5		
Date:	30 October 2015		

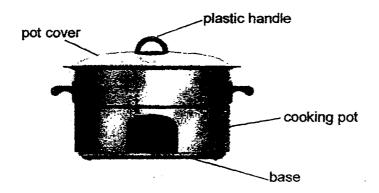
Booklet A1 & A2	60
Booklet B1	20
Booklet B2	20
Total	100
Parent's Signature	

This booklet consists of 8 printed pages including this page.

For questions 38 to 44, write you	r answers in the spaces provided.	The number of marks
available is shown in brackets [) at the end of each question or p	art question.

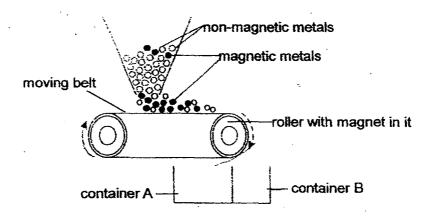
[20 marks]

38. Joe went shopping with his mother, Mrs Lim, for a cooking pot. Mrs Lim chose and bought a cooking pot as shown below.



the cover, which material should a your answer.	site choose for ale por cover: Cive a re	ason
Explain why the handle for the co	ooking pot cover is made of plastic.	

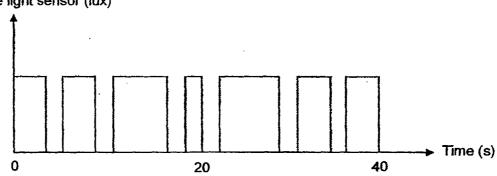
39. The diagram below shows a mixture of magnetic and non-magnetic metals being poured onto a moving belt. The magnetic and non-magnetic metals are then separated and collected in containers A and B.



[2]	in containers A and B.								
ed on the moving belt in order to fill containers A and B	More metals can be poured								
ay to fill containers A and B faster. [1]	faster. Suggest another way								
ay to fill containers A and B faster.	faster. Suggest <u>another</u> way								

At any time, only one person can pass through the doorway. When a person is between the light source and light sensor, the body blocks the light reaching the sensor. The data recorded is shown in the graph below.

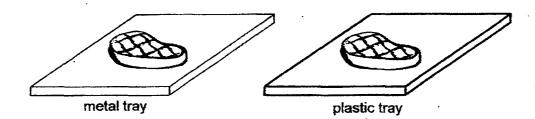
Amount of light detected by the light sensor (lux)



- (a) Based on the graph above, how many people walked through the doorway in 40 seconds?
- (b) The light source and the sensor are placed 120 cm above ground. State whether a child who is 100 cm in height can be counted. Explain your answer. [1]
- (c) Which property of light can be demonstrated in this set-up? [1]

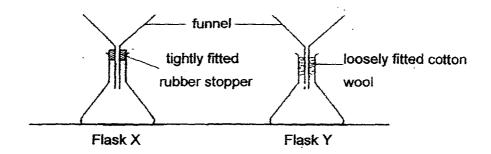
(Go on to the next page)

41. Ahmad took a piece of beef steak out from the freezer and wanted to defrost it using a tray. He has a metal tray and a plastic tray as shown in the diagram below.



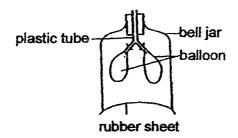
	a shorter time? Explain your answer.
-	
F	fter defrosting the beef steak, Ahmad wanted to fry the beef steak on a hot
r	netal plate.
£	
n	it metal plate
	hot metal plate
	one slice of beef steak beef cubes
	lis mother advised him to cut the beef steak into beef cubes as shown
8	bove so that the time taken to fry the beef cubes on the hot metal plate would horter. Do you agree with his mother? Explain your answer.

42. Choon Meng used two identical flasks, X and Y, and funnels to prepare the set-ups shown below. He used a tight fitting rubber stopper and some loosely fitted cotton wool to hold the funnels in place. He then poured 250 cm³ of water into each funnel and timed how long it took for all the water to enter the flask.



3)	Which flask, X or Y, would take	a shorter time for all the water to enter the flask?
	Explain your answer clearly.	[2
	,	

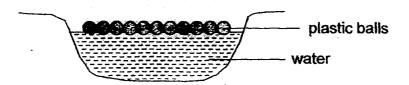
Choong Meng also made a lung model as shown below. He observed that the balloons in the bell jar inflated when he pulled the rubber sheet downwards.



(b)	Why did the balloons inflate when he pulled the rubber sheet down?										

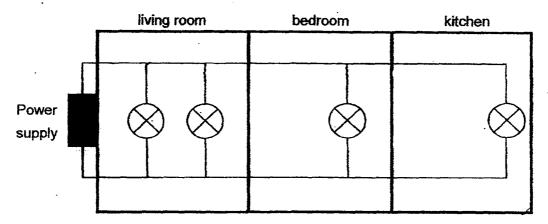


43. In an attempt to conserve water in what seems to be an ever-lasting drought, light plastic "shade balls" were released in the Los Angeles Reservoir.



(a)	Explain how these plastic "shade balls" are able to fight drought and help prote								
	the water supply?	2]							
		_							
		_							
		_							
(b)	Water can be conserved through the 3Rs. Suggest a way in which water usage								
(6)		[1]							
		_							

44. The diagram below shows the electrical connection of Mr Lim's house.



Electrical connection in Mr Lim's house

(a)	The bulbs above could be turned on individually only when needed. What is									
	another advantage of connecting the bulbs in the house as shown above?	[1]								
(b)	On the diagram above, draw four switches such that Mr Lim could turn on eabulb individually in each room only when needed. Mark an "X" on the circuit to									
	show where each switch should be connected.	[1]								
(c)	Based on your answer in (b), would the arrangement of the switches help Mr I	Lim								
	to save on his electricity bill? Explain your answer clearly.	[1]								

EXAM PAPER 2015

LEVEL: PRIMARY 5

SCHOOL: METHODIST GIRLS' SCHOOL

SUBJECT: SCIENCE

TERM : SA2

Q 1	Q 2	Q 3	Q 4	Q 5	Q 6	Q 7	Q8	Q9	Q 10
4	3	2	3	2	3	2	1	3	1
Q 11	Q 12	Q 13	Q 14	Q 15	Q16	Q17	Q18	Q19	Q20
1	3	2	2	2	2	1	3	2	1
Q21	Q22	Q23	Q24	Q25	Q26	Q27	Q28	Q29	· Q30
4	2	3	1	1	4	1	3	4	1

031a. Running - B

Q31a. Brisk walking - C

Q31a. Strolling - D

Q32a. Sitting - A

Q322b. The higher the breathing rate, the higher the pulse rate.

Q32a. Box A. Box A has the conditions needed for fungus to survive, air, water and warmth.

Q32b. By making the boxes airtight, Lillian ensures that no water vapour / moisture from the air reaches the bread. It also prevents water loss from box A.

Q32c. It is to prevent fungus growing on the mooncakes as the silica gel absorbs moisture in the box.

Q33a. Line S. Roots absorb water. Plant A has more roots than Plant B and thus, the water level in Plant A is lower than B.

Q33b. It is to prevent water from evaporating so that we can confirm that the decrease in the water level is only caused by the amount of roots.

Q34a. Both leaves would die.

Q34b. Leaf A and Leaf B cannot receive water absorbed by the roots and transported by the xylem.

Q35a. Set – up B.

Q35b. Set up A and Set up B.

Q35c. Variable 1: The amount of water . Q35c. Variable 2: The size of the cotton wool.

Q36a. Organism C and D.

Q36b. Both do not have flowers so pollination and fertilization cannot take place for seeds to develop.

Q36c, They can photosynthesise.

Q37a. Part B and C.

Q37b. Diagram R. The seeds of plant Z are scattered everywhere just like in Diagram R. It does not follow the wind direction as it is not found where the wind blows.

Q37c. It is to prevent overcrowding and reduces competition between the young and parent plant for sunlight, space, water and nutrients.

Q38a. It is transparent and allows Mrs Lim to see the food in the cooking pot.

Q38b. Plastic is a poor conductor of heat and it would not gain heat quickly so that people using the pot will not burn themselves when they touch it.

Q39a. The magnetic materials would be attracted by the magnet in the roller which would drop into Container A. Whereas, the non – magnetic matrials would be rolled into Container B.

Q39b. Speed up the speed of the moving belt.

Q40a. 6 people

Q40b. No, a child who is 100cm in height cannot be counted. The child would be too short and his body cannot block the light from reaching the sensor.

Q40c. Light travels in straight lines.

Q41a. He should choose the metal tray. Metal is a good conductor of heat and when it touches the hotter surface of the metal tray, the beef would gain heat and defrost in a shorter time.

Q41b. Yes. The beef cubes will be cooked faster on the hot metal plate because the beef cubes have more surface area in contact with hot metal plate so the beef cubes will gain heat at a faster rate from the metal plate than the plastic plate.

Q42a. Flask Y. The air in flask Y can escape more quickly than the air in flask X making space for water to enter the flask as there are tiny spaces in the cotton wool which allow air to escape.

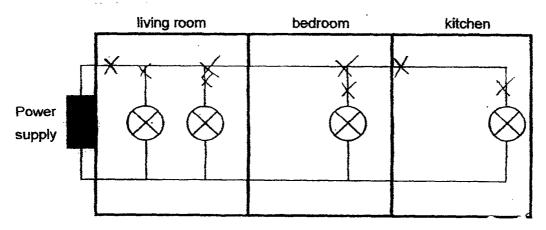
Q42b. When the rubber sheet was pulled down, the volume or space in the bell jar becomes bigger and air rushes into the bell jar to occupy the space.

Q43a. The plastic balls are light and float on the surface of water in the reservoir. This reduces the rate of evaporation as the exposed surface area of the reservoir water is decreased.

Q43b. Wash plates in a basin of water instead of washing them under a running tap.

Q44a. When one bulb fuses, the other bulbs can still light up.

Q44b. SEE PICTURE.



Electrical connection in Mr Lim's house

Q44c. Yes. The switches can control the bulb individually and the light bulbs that are not needed do not need to be lit, saving energy.

THE END

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