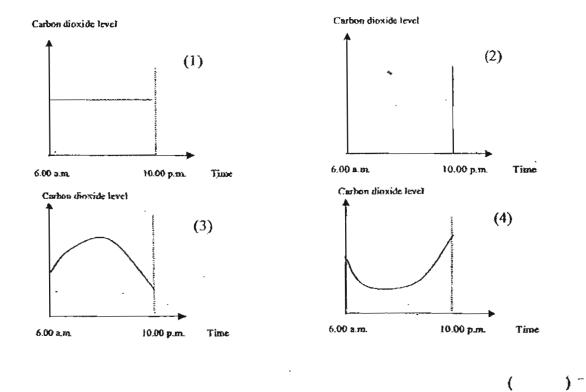
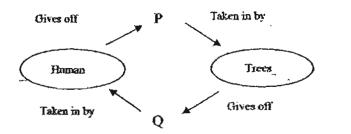
METHODIST GIRLS' SCHOOL (PRIMARY) CONTINUAL ASSESSMENT 1 PRIMARY FOUR SCIENCE 2007

		Marks:		
Clas Date	s: P 4 ::	Parent's Signature:		
Cho		(30 marks) e most suitable answer and write its number in the brackets		
1.	Wha	at do green plants need to make food?		
	A: B: C: D: (1) (2) (3) (4)	water oxygen sunlight carbon dioxide A and B only C and D only A, B and C only A, C and D only	()
2.		re are certain life processes in plants and animals. One of the life esses that removes carbon dioxide from the atmosphere is	f	
	(1) (2) (3) (4)	circulation respiration transpiration photosynthesis	()
3.		ch one of the following gives the correct order in which carbon disported in our body?	oxide	: is
	(1) (2) (3) (4)	all parts of the body → heart → lungs → windpipe windpipe → lungs → heart → all parts of the body lungs → all parts of the body → windpipe → heart windpipe → all parts of the body → lungs → heart	. ()

4. Which of the following graphs correctly shows the carbon dioxide level in the air at a park from 6.00 a.m. to 10.00 p.m.?



5. The diagram below shows the exchange of gases by 2 groups of organisms.

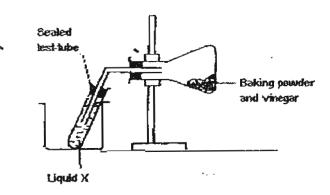


What do P and Q represent?

•	P	Q
(1)	Water vapour	Oxygen
(2)	Carbon dioxide	Oxygen
(3)	Oxygen	Carbon dioxide
(4)	Carbon dioxide	Water vapour

2

Sally wanted to find out the effect of vinegar on baking powder. She set up the experiment as shown in the diagram below.



6.	She clea	observed some changes taking place in Liquid X inside the r Liquid X had turned chalky. What do you think was Liquid	test-tube. X?	The		
	(1)	alcohol				
	(2)	mercury				
	(3)	lap water		_		
	(4)	limewater	()		
7.	Wha	at gas was produced to turn Liquid X from clear to chalky?				
	(1)	oxygen	3			
	(2)	nitrogen				
	(3)	water_vapour				
	(4)	carbon dioxide	()		
8.	Our human circulatory system is made up of					
	Á:	nose				
	B :	heart				
•	C;	blood				
	D:	xylem				
	E:	blood vessels				
	(1)	A, B and C only	•			
	(2)	B, C and E only				
	(3)	A, B, C and E only				
	(4)	B, C, D and E only	Ç)		

9.	Arra orde	nge the following activities according to the breathing rate in des	scendir	g
	A: B: C: D:	Taking a nap Brisk-walking 100 metres in the park Watching a horror movie Climbing a flight of stairs from ground floor to 5 th floor		
٠	(1) (2) (3) (4)	D, B, C, A B, D, A, C A, C, B, D D, C, B, A	() -
10.	Our	blood is made up of:		
	A: B: C: D;	red blood cells white blood cells plasma platelets		
	Whi	ch of the above do not transport any materials in the body?		
	(1) (2) (3) (4)	A and B only B and C only C and D only B and D only	()
11.	hum	re are some similarities between the plant transport system and an transport system. Which statement/s given below is/are not larity/similarities?		
	A: B: C: D:	Both systems transport gases, food and water Both systems have tubes to transport materials Both systems perform the function of transporting materials Both systems consist of different parts that work together to p function	erform	а
	(1) (2) (3) (4)	A only A and B only A and C only A and D only	()

12. Below is a table showing the breathing methods of living things. Which is the correct classification?

	Breathing Methods of Living Things			
	Stomata	Lungs	Gills	Skin
<u>(M)</u>	Fem	Shark	Crabs	Earthworm
(2)	Mushroom	Elephant	Sea bass	Garoupa
(3)	Fern	Dolphin	Mudskipper	Earthworm
(4)	Mushroom	Sea cow	Guppy	Mudskipper

()

13. In the human respiratory system, there are differences between the air that is inhaled and the air that is exhaled. Which of the following is *incorrect*?

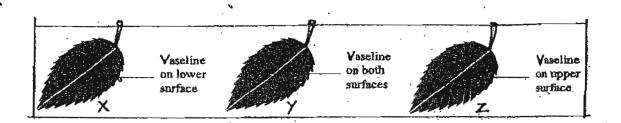
	Inhaled Air Exhaled Air	
(1)	More oxygen	Less oxygen
(2)	Less carbon dioxide	More carbon dioxide
(3)	More dust particles	Less dust particles
(4)	More water vapour	Less water vapour

)

- 14. We get a bruise when we get a hard knock. Why is this so?
 - (1) Our bones were damaged.
 - (2) Veins were cut into two.
 - (3) Capillaries were damaged.
 - (4) Blood could not reach the arteries around that spot.

(

15. Three identical leaves X, Y and Z are hung in an airy place. Some vaseline is smeared on each of them as shown below. Next, the leaves are weighed individually.



It was observed that Leaf Y's weight remains the same and Leaf Z's weight is less than that of Leaf X. What are the likely predictions for the observations?

- A: Water is lost more rapidly from the lower surface than the upper surface of the leaf
- B: Water is lost more rapidly from the upper surface than the lower surface of the leaf
- C: Water is lost from both surfaces
- D: Water is not lost from Leaf Y
- (1) A and C only
- (2) A and D only
- (3) A, B and D only
- (4) A, C and D only

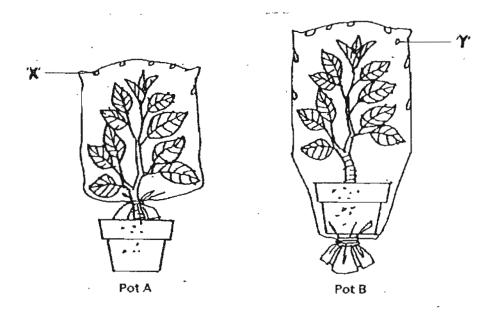
End of Section A
Please proceed to Section B

Section B (20 marks)

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Write the correct answers in the spaces provided. Marks will be deducted for keywords that have been mis-spelt.

16. Two pots of plants A and B were covered with plastic bags as shown in the diagrams below. Both pots were left in a sunny place. After some time, some changes were observed in both plastic bags.



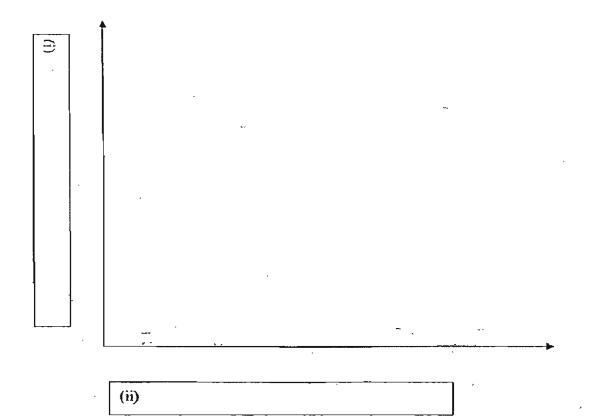
(a).	What were 'X' and 'Y'?	(1m
	'X' and 'Y' were	
(b).	Where did 'X' and 'Y' come from?	(2m)
	'X' came from the	
	Y' came from the	

17. The table shows the normal heart beat rates of 5 different animals, A, B, C, D and E.

Animal	Heart Beats/minute
A	60
В	20
С	120
D	- 80
E	70

(a). Use the information given in the table to draw a bar graph in the space below.

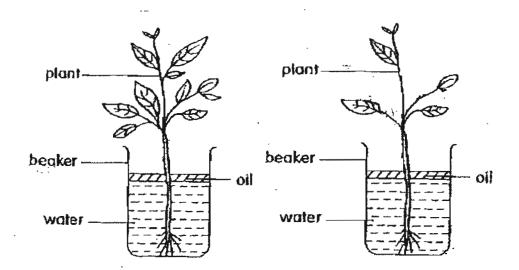
Label the two axes, (i) and (ii), in the boxes accordingly. (2m)



(b). Which of the heartbeats above is most likely to be that of a baby? (1m)

(c). Name one disease associated with the heart. (1m)

18. Leon set up an experiment as shown below. The 2 similar beakers were placed in the school field. He had also poured some oil into both beakers. After a day, Leon realized that the water level in both beakers had decreased.

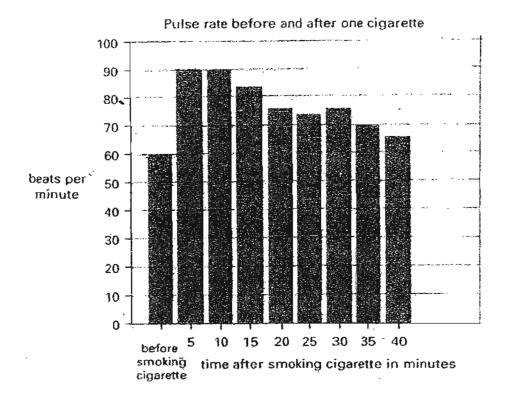


(a).	What do you think is Leon trying to investigate?	(1m)
(b).	Why did Leon pour oil into both beakers?	(1m)
(c).	Name any 2 variables that Leon must keep const fair test.	ant so that this is a (1m)

Beck the o	y has some coffee powder. She kept half of it in an air- ther half in a plastic bag. After one week, Becky obser	tight container and ved some changes.
(a).	What do you think will Becky observe after a week?	(1m)
(b).	Explain your answer given in (a).	(1m)

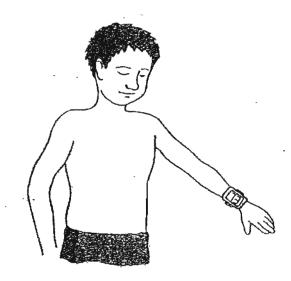
19.

20. The graph shows the pulse rate before and after smoking a cigarette.



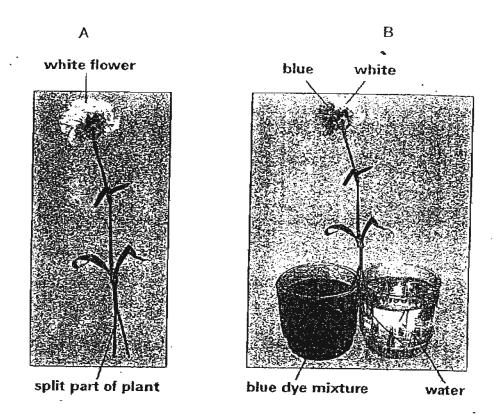
a).	What was the pulse rate before smoking	a cigarette?	(1m)
	The pulse rate was	_beats per minut	e.
(b).	By how much did the pulse rate increase smoking a cigarette?	e in the first five n	ninutes after (1m)
(c).	Explain why the pulse rate increases after	er smoking.	(1m)
	Smoking causes less	to reach the	body. So
	the heart has to pump	to make up	for the
	difference		, ,

21. On the diagram below, mark the position of the heart with the letter H. (½ m)



- (a). Which part of the body protects the heart? (½ m)
- (b). Name the blood vessels that take blood away from the heart. (1m)
- (c). What is the job of the heart? (1m)

22. Helen set up an investigation as shown below. She splits part of the stem of a flower in half as shown in picture A. Then she put one half in water mixed with blue dye as shown in picture B.



After some time, half of the flower turns blue.

(a).	What part of the stem did the dye travel through to get to the flower? (1m)
(b). red d	Predict what will happen if Helen puts a new stalk of white flower into ye. (1m)

End of Paper
Please check your work carefully



answer sheet

M G S PRIMARY SCHOOL - PRIMARY 4 SCIENCE 2007 CONTINUAL ASSESSMENT (1)

1.	4	4	6) appater					
2.	4		b) X: pl	ant				
3.	1		Y: pl	ant ane	Soil			
4.	A^{*}	·	5 ,1	. ′	The same of the sa	and the state of t		
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9.6.	4		ir)Ani					
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1.3	- 4				used y			nt.
	. 3		b)To pro					
14			c) 1) The	A PARK THE TANK THE STREET	174 SEE SEE 175	Ph-		A
**			2) The	amount	of wate			

tight container remained the same but the office powder in the plastic bag becomes mould.

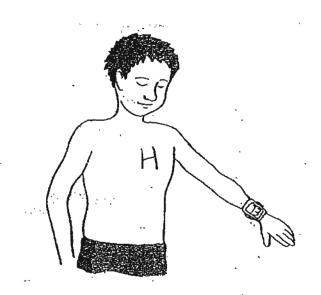
b) Mould cannot grow in air tight container because there is no in and moisture. Spores bloating in the air can and a the coffee powder and mould will grow in the presence oxygen are moisture from the air in the classic bag.

20 (8) 60

b) It increased by 30 beats per minute.

Noxygen, faster

- 21)a)Rib cage.
 - b) Arteries.
 - c) To pump to all parts of the body.
- 22)a) The xylem.
- b) The roots stem and leaves of the flower will turn red.
- 21. On the diagram below, mark the position of the heart with the letter H. (½ m)



17)

