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P6
Sci
en
ICe
SA
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page 1 of 45

A, B and C only

4

2

<u>ن</u> Э

C and D only

Donly

D

grasshopper

B and C only

butterfly

ω

0

mosquito

 \geq

frog

above?

Which of the following animals go(es) through the life cycle as shown

adult

nymph

Name

Index No:

Class: P

ດ

score

Highest

RAFFLES GIRLS' PRIMARY SCHOOL

score out of **100**

Your

marks

Class

Level

SEMESTRAL ASSESSMENT (1)

2010

~

May 2010

SCIENCE

Att: 1

₽

45 min

score Average

Parent's

signature

SECTION A (30 X 2 marks)

For each question from 1 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).

<u>__</u>__

The diagram below shows the life cycle of an animal.

<u>6</u> <u>6</u>

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N

Sam described his father, mother and his physical characteristics below.

Which of the following traits did Sam inherit from his parents?

- 3 dimples and long nails
- (2) widow's peak and detached earlobes
- ය
- 4
- widow's peak, long nails, short hair and detached earlobes

- widows peak, short hair, detached earlobes

ł

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4 3 (2) Э pollen grains are female part of the flower where pollen grains are transferred to female part of the flower where pollen grains are male part of the flower where pollen grains are transferred to male part of the flower where × pollen grains are transferred to male part of the flower where pollen grains are male part of the flower where pollen grains are transferred to female part of the flower where pollen grains are female part of the flower where

Based on the diagram above, which one of the following statements about X and Y is true during the process of pollination? pairs q

ſ

ŝ

Parts X and Y of a flower are shown in the diagram below.

×

≺

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Which one of the following could possibly be the aim of Sally's experiment?

Ð

Sunlight is necessary for photosynthesis.

Overcrowding affects healthy plant growth.

Garden soil is necessary for healthy plant growth.

Water is necessary for healthy plant growth.

4

certain conditions

Step 1

• •

soil.

She filled five flower pots made of the same material but of different sizes with the same amount of garden

Step 2

She planted the same number of the same type of

seeds in each pot.

Step 4

. .

of water daily.

She watered each of the pots with the same amount

She placed the pots side by side in the garden

Step 3

Sally carried out the following steps to find out how plants grow under

page 5 of 45

m ୀ ପ O · · · · · · ·

At which parts of the digestive system are digestive juices produced? .

4

C, D, E

(

B, D, E

 (\mathbb{N})

A, Q, D

Э

A, B, C

Ģ

The diagram below shows the human digestive system.

0 On a morning run, Henry ran up a hill, rested for 15 minutes at the top of the hill and ran down again.

He ran at a constant speed. The duration of his run lasted for 40 minutes.

Which one of the following graphs could possibly represent Henry's pulse rate during the 40 minutes?



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			•	
	Ð	Q	R 007	S
(1)	attracts animals to help in seed dispersal	transports food, water and mineral salts	holds plant firmly to the ground	takes in water and mineral salts
(2)	contains water and mineral salts	holds plant firmly to the ground	takes in water and mineral salts	contains small openings for the exchange of gases
(3)	takes in water and mineral salts	makes food	holds plant firmly to the ground	attracts animals to help in seed dispersal
(4)	contains seeds for reproduction	supports leaves	takes in water and mineral salts	allows gaseous exchange during photosynthesis

and S in the diagram above? Which one of the following gives the correct functions of the parts P, Q, R .

 $\frac{1}{2}$

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ł

. . The diagram below shows parts of a plant.

σ

Ð

S

Ð

Ø

X

备

7.

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page 8 of 45

(4)	(3)	(2)	(1)	
shows the movement of water and mineral salts	shows the movement of air	shows the movement of food	shows the movement of food and mineral salts	
shows the movement of food	shows the movement of food and mineral salts	shows the movement of water and mineral salts	shows the movement of air	1 6 8 8 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9

ſ

Which one of the following pairs describes arrows correctly?



ço

The diagram below shows the flow of substances; X and Y, within a plant.

1

page 9 of 45

4 (<u></u> Э 2 animal cells ≥ C and D B and C A and D B and C ÷ plant cell(s) A and B A and D B and C 2



ဖ

classification of these cells? Based on the diagrams above, which one of the following is a correct

.

10 Tom's teacher told him that limewater turned chalky in the presence of carbon dioxide.

to find out what would happen to the limewater. Tom used two similar plants in different set-ups, A and B, as shown below,



What could possibly be the materials of X and Y?

set-up B had turned chalky.

that the limewater in set-up A remained colourless while the limewater in

(4)	(3)	. (2)	(1)	
clear glass	wood	cardboard	wood	set-up A
wood	clear glass	frosted glass	cardboard	set-up B

page 10 of 45

goldfish and aquatic plants. Sandy set up an experiment using the apparatus and similar type of

room under lights as shown in the diagrams below. She sealed each set-up with a clear plastic wrap and placed them in ω



Sandy recorded her observations of each beaker as follows:

Beaker C	Beaker B	Beaker A
All the fish died on day 3.	All the fish died on day 2.	All the fish died on day 1.

in Beaker C died on day 3? Which of the following could be the likely reason(s) to explain why the fish

>More space was available for the fish to take in oxygen.

2

- fish. More water plants were available to provide oxygen for the
- respiration of plants and fish: Rate of photosynthesis of plants was greater than rate <u>q</u>

0

- Rate respiration of plants and fish. **ç** respiration of. plants was greater than rate <u>o</u>
- A and D only <u>(</u>2) B and C only
- and D only (4) A, B and D only

3

Ω

Ē

page 11 of 45

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ς.

plant A **่**ช่า plant B 12

The diagram below shows the types of plants, A and B, found in a pond.

A group of pupils found that as the number of plant B in the pond decreased. increased, the number of plant A growing at the bottom of the pond

expla Based on the information above, each of these pupils gave his/ her

anation.	
Joshua :	Dissolved oxygen cannot reach plant A.
Jenny :	Less light reaches the deeper parts of the pond.
Mei Yin:	Less nutrients are found in the deeper parts of the popd.
Mustafa :	Plant A competes for space in the deeper parts of the pond.

Which one of these pupils gave the most likely explanation(s)?

Э Jenny only

2 Joshua only

ω

Mei Yin and Mustafa only

£ Joshua, Meiyin and Mustafa only

page 13 of 45

, B D Π

О П

1

G Q 0

4 3 2

3

ί.,

Which one of the following describes correctly? the roles **약** these organisms

producer a food σ \geq a predator \geq 0 a prey only 0 D ţ and prey predator both a -Fil ω

-

Ъ Q T Π



1ω The following food web shows the food relationships among some organisms: A, B, C, D, E, F and G.

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14 Which of the following statements is/ are true about decomposers?

 \geq They cause decay.

(0) They feed on dead matter.

O They are all microscopic organisms.

(<u>3</u>) Э A only B and C only 4 $\widehat{\mathbb{O}}$ A, B and C A and B only

15.

move in water? Fish have structural adaptations which help them to move in water. Which of the following are structural adaptations which help the fish to

⋟ Their tail fins enable them to propel forward in water.

Ξ They move close to the water surface to take in oxygen.

O Their gills help them to take in dissolved oxygen in the water.

They have streamlined bodies to overcome water resistance.

D

A and B only 2 A and D only

Э <u>(</u> B, C and D only

£ A, B, C and D

page 15 of 45

2

·								
•	٠		•	•	۲	•	٠	
has sharp claws	has a streamlined body	vision	has sharp claws	has hollow bones	has good night vision	has hollow bones	has a curvéd beak	×
•	•	•	s. •	٠	•	•	٠	
has tendrils	has smail dull- coloured flowers	has tendrils	has brightly coloured flowers	has sweet- smelling flowers	has thorns on its stem	has a swollen stem	has needle-like leaves	~
•	•	•	•	٠	٠			
has webbed feet	sweats very little	has padded feet	drinks and urinates very little	drinks a lot of water	has sharp claws	sweats very little	has padded feet	Z

Which one of the following shows the correct adaptations of these organisms. X. Y and 7?
--

Ν

٠

lives in the hot desert

.

insects help to pollinate its flowers

.

walks on sandy ground

3

4

1

(2)

Э

16

organism

information

×

.

۰

feeds only at night

~

۰

has a weak stem

٠

feeds on small animals

The table below provides some information on three different types of organisms, X, Y and Z.

page 16 of 45

£ B and D only

ය

Э

B and C only

A and D only

C only

3

of the river

9

Pesticides from the farm affected only water sample in part Y

most polluted

What could All conclude from his observations?

¥

to the duckweeds.

Water samples from parts W and X of the river were harmful

 $\overline{\nabla}$

17.

The arrow (--

Ali obtained an equal amount of water sample from the different parts of the river, W, X, Y and Z, as shown in the diagram below.

→) shows the direction in which the water in the river flows

farm

recorded his observations in the table shown below. Ali put an equal number of duckweeds into each

water

sample

and

factory

N

taken from different parts of

> appearance of water

duckweeds at the beginning of the experiment

duckweeds after 6

days of

number of

experiment

number of

river

×

clear

-< ×

chalky

5

3

clear

ភ

25

8

0

28

<u>с</u>

N

muddy

sample water

water samples from parts W and Z of the river. Water sample from part Y of the river was more polluted than

Water sample from part Z of the river could possibly be the

0

18. A group of pupils during a beach clean-up event found lots of rubbish along the beach.

2

Rubbish was sorted into two separate trash bags as shown below.



Which one of the following shows how these pupils sorted the rubbish?

×	Xe 	X	Æ	
items that could cause land pollution	items that were biodegradable	items that could decompose	items that could be recycled	bag A
items that could not cause land pollution	items that were non-biodegradable	items that could not decompose	items that could not be recycled	bag B

2

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 $(\underline{\gamma},\underline{\gamma})$

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4

10 his experiment. David used four different types of strings of equal length and thickness for

mass on each string. The diagrams below show David's observations of the effect of the different



each string could bear before it snapped. The different mass attached on each string was the maximum weight that

Which one of these strings is made of the strongest material?

- \mathcal{E} String A
- $\widehat{\mathbf{N}}$ String B
- Ð String C
- È String D

- 20. Substance H melts at 15 °C and boils at 110 °C.

0° 59 40 °C 10 °C

At which one of the following temperatures is substance H a solid?

125 °C

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21 The following statements show the different phases in the water cycle. However, they are **NOT** arranged in the correct sequence.

- \geq Water vapour rises and cools.
- Ø The clouds become heavier and heavier.
- O Rain falls to the earth.
- Water evaporates from the seas, rivers and living things.
- Ш Water vapour condenses to form small droplets of water.

Which one of the following shows the correct sequence of the water cycle?

and Diagram 1 and Diagram 2 below show a girl sitting near a tree at 2.00pm noon respectively.

22



NOT a correct inference about shadows? Based on the diagrams above, which one of the following statements is

Diagram 2

- Э Both the tree and the girl block the light rays and thus create
- shadows.
- (2) shorter. As the sun rises from morning to noon, the shadow of the tree gets
- 3 The length of the shadow of the tree is longer than the shadow of
- the girl at 2.00pm
- 4 the sun is blocked by the tree. The shadow of the girl will not be formed as all the light rays from

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The graph below shows how the temperature <u>of water</u> in each of the two beakers, X and Y, changed over time as the water in both beakers was heated from Point A to Point B.

23.



the graph correctly? Based on the graph above, which one of the following statements interprets

- ≫ Both beakers of water were heated at the same time.
- **U** Beaker X was heated over a stronger flame than beaker.
- 0 Beaker Y was heated over a stronger flame than beaker X.
- reach its boiling point. The temperature of water in beaker × took a longer time đ
- Ш reach its boiling point. The temperature of water in beaker Y took a longer time to
- ය Э ≥ A and D only B and E only Æ $\overline{\mathbb{N}}$ B, C and E only C and D only

· 1

page 21 of 45

(

page 22 of 45

.



Which of the switches should be left open and which should be closed so that ONLY bulb W lights up?

+
-

đ

24.

The diagram below shows the various components of a circuit.

page 23 <u>ç</u> ቆ



Which one set of the circuit diagrams below shows the correct connections of each of these circuits W, X, Y and Z?

Z	Y	×	W		circuit
j.			~	not lighted	
~				dim	observations
		4		bright	observations of the bulb(s)
	~			brightest	

Her results are shown in the table below. A tick ($\sqrt{}$) in the box below shows the observations made of the bulb(s).

bulb(s) each time she closed a different circuit. of identical bulbs and batteries. She recorded her observations of the Diana connected four different circuits, W, X, Y and Z, using a combination

25.

26. strings of three different lengths. Tom had four magnets of the same size, W, X, Y, Z, which were hung by

directly below the magnets as shown below. A plastic tray filled with evenly spread out iron paper clips was placed



Which one of the following observations made by Tom is definitely true? Tom observed that each magnet attracted a different number of paper clips.

Magnet Y is the weakest,

3

(2) Magnet X is as strong as magnet Y.

હ Magnet Y is stronger than magnet Z:

4 Magnet Z is stronger than magnet $X_{\!\scriptscriptstyle X}$

page 24 ្ធ **\$**5

27. An iron bar, G, became a temporary magnet after a permanent magnet had stroked it many times as shown in the diagram below.



and H, as shown below. The Iron bar, G, was left to hang from a pole with some other bars, E, F



Which of these statements about the bars are definitely true? The arrow below each specified bar shows the direction in which it moved.

- \geq Bar F is a magnet.
- ν W Bar E is made of a magnetic material.
- C The magnetic strength of Bar G is weak,
- 15
- , D Bar H is made of a non-magnetic material.
- <u>ن</u> 3 A and B only <u>(</u>2) C and D only

page

25

<u>q</u>

45

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1

- A, B and D only

- Æ A, C and D only

28. The graph below shows how the lengths affected by the mass hung on each of them. of two springs, A and B, are



Which of the following statements about the graph is/are true?

- \geq The original length of spring A is longer than the original length of spring B.
- ω extends more than spring B. For the same amount of mass hung on the spring, spring A extends more than spring R
- 0 the springs. Gravity acts only on the mass hung on the springs but not on
- A only $\widehat{\mathbb{N}}$ C only

Ξ

ω A and B only

> 4 A and C only

29 John threw a ball at the wall

the ball? Which one of the following effects of force is illustrated when John threw

- Э A force can stop a moving object
- (2) A force can make a stationary object move.
- ය A force can change the speed of a moving object.
- 4 A force can change the direction of a moving object

page 26 ್ಷ \$

page 27 ទ្ធ 8



Which one of the following graphs shows the correct amount of force of gravity acting on the ball at points W, X and Y?



30

ball. The diagram below shows the path of the ball travelled when it was kicked during a soccer game. Points W, X and Y are the different positions along the path of the travelling

 $\frac{33}{1}$ The number of marks available is shown in the brackets [question or part question. SECTION B (40 marks) For questions 31 to 44, write your answers clearly in the spaces provided. Name : • own? Loes it make its own food? another on its place to from one Does it move В no mould mushroom things Living The classification chart below shows how some living things classified. yes yes scales? Does it have Does it give birth to its blooded? warmls it young alive? . . • В . σ Group 5 moss frog fern toad Ы on no Page 28 of 45 Index No : yes yes yes yes Does it lay eggs? ٠ . rose waterlily ۲ . ٠ . . Group 4 Group 2 ŋo . snake lizard guppy shark Group 3 giraffe whale Class : P6] at the end of each yes . ٠ are Group 1 parrot eagle being 40

Based on the information on page 28, answer the questions below:



Э State a common characteristic between animals in group 1 and group 2. [1]



- <u></u> The platypus is described as an animal with the following characteristics:
- . is warm-blooded does not give birth to its young

Which group does the 'platypus' belong to? Write number 1, 2, 3, 4 or 5 only.

Group	Write
	Write number 1, 2, 3, 4 or 5 only.
 ł	4 or 5 only.
	I
	·
	[1]

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1

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Э State the reproductive organs of human where Cell X and Cell Y are produced. [1]

Cell X

(a**)**

State the process as seen in the diagram above.

32

The diagram below shows two types of reproductive cells, Cell X and Cell Y.

Cell Y

Ξ

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ia*

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Helen calculated the percentage increase for each species of plants between 2000 to 2002 and recorded her findings in the graph below.

ယ္ပ

nearer to each other. Helen observed that there were more plants and they were growing

shown below. Helen calculated the percentage increase for each plant species from 2004 to 2006 and made a comparison with the old data on the graph as



(a) following plants: State the method of dispersal of fruit/ seed for each of the Ξ

Z	۲	×

(b) Helen observed that Plant X had been reproducing much better than Plants Y and Z over the years of her observations and that observation was even more significant after the buildings were built on the island.

the rate of reproduction of Plants Y and Z on the island. Explain how the buildings on the island could have affected 2 ξ,

Tom set up the experiment below using the apparatus as shown below.

34.



turns dark blue in the presence of starch. iodine solution to test for the presence of starch. Brown iodine solution the dialysis bag and the iodine solution in the beaker. He used the In his experiment, Tom observed the colours of the mixture solution in

solution

beaker at the start and at the end of the experiment. He also tested for the presence of glucose in the dialysis bag and the

below. He recorded the results of his tests and observations in the tables

	Table 1: Test for starch	
	colour of solution at the start of experiment	colour of solution an hour later
solution in dialysis bag	white	dark blue
solution in beaker	brown .	brown

solution in beaker	solution in dialysis bag	at the start experiment	Table 2
absent	present	presence of glucose at the start of experiment	Table 2: Test for glucose
present	present _	presence of glucose an hour later	

(a)	
Which part of an animal cell has a simila	
animal cell has a similar function as the dialysis	

bag? Ξ

.

1

٠.

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	Table 4: Test for glucose	cose
	presence of glucose	presence of glucose
	at the start of	an hour later
	experiment	
solution in		
dialysis bag	•	
solution in		
beaker		
	~	

		table 3: Test for starch	Ircn
		colour of solution at	colour of solution an
		the start of	hour later
	A Constitution of the second se	experiment	
_	solution in		
<u> </u>	dialysis bag		
	solution in		
	beaker		•

		Predict the results of his test and observations in the tables below. [2]
ex ∯ co	-	sults
e s e s	1	of
colour of so the start of experiment	able	his
of of	3: T	test
colour of solution at the start of experiment	est f	and
	Table 3: Test for starch	observa
colour of s hour later	-	tions
fer		5
sol		the
- Lic		ត
colour of solution an hour later		ables [2]

(b)

iodine solution mixture of starch and glucose solution diagram below.

Tom decided to place the iodine solution in the dialysis bag and the mixture of starch and glucose solution in the beaker as shown in the

dialysis bag

- beaker

35. 25. The pie chart below shows the population size of each organism, P, Q, R and S, in a certain community.







When the population of organism S was wiped out suddenly by a type of disease, state the effect(s) on each of the other organisms.

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ź $i_{J_{k,i}}$

1.

[1]

(b)

(a)

The table below shows how some animals adapt to survive in their habitats.

amman	adaptation	now adaptation enables animal to survive in its habitat
P	has a long neck	can eat leaves of tall trees
Q	flies south in winter	gives animal warmth
R	hibernates	can avoid food shortages in winter
S	has sharp, stiff quills	can defend itself against its enemies
	climbstrees	can escape from its predators
C	produces very little sweat and urine	reduces water loss from its body

Based on the information above, classify the animals given using the diagram below. Write letters *P*, *Q*, *R*, *S*, *T* and *U* in the correct boxes ONCE only.





1

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36<u>.</u>
37. The following flow chart shows how some matter at room temperature are differentiated based on their properties.



A 1-litre bottle contains 900 cm³ of matter A and 100 cm³ of olive

(d

<u>e</u>:

What is the volume of matter A in the bottle now? Another 100 cm ³ of matter A is added to the same bottle

The new volume of matter A is ۰. Page 37 of 45 چ¦

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38<u>.</u> The diagram below shows a model of how desalination is carried out.



(a) In the table below, write down the process that is taking place at A and B. [2]

]	æ	A	
			process

Explain how the cold, damp cloth that covers the bent tube helps in the process of obtaining C in the beaker. [1]

. (b)



•

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١,

The diagram below shows three objects, (A, B and C) each made of a different material placed between a lighted torch and a screen.

39.



The dimensions of the three objects are given below.



Tom turned on the torch and observed the shadows of the different objects formed on the screen as shown below.



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(a) Tom used a datalogger to measure the amount of light passing through each of these objects A, B and C.

In the table below, identify the object that most likely matches to each of the following readings from the datalogger. [1]

. 1280	13	2000	reading from the datalogger (Lux)
			object

The diagram below shows three boxes, X, Y and Z, of the same size made of the same material, painted in three different colours: white, blue and black.

were placed under the sun for one hour. A thermometer was inserted into each box and all the boxes



Tom recorded the temperature of each box in the table below.

 temperature of each box (° C)	•
38	box X
49	box Y
 25	box Z

(b)

based on the comparisons made with the other boxes.

3

What was the most likely colour of box Y? Explain your answei

5

material of the same thickness. Identical ice cubes were each placed in sealed boxes (A, B, C and D) as shown in the set-ups below. Each box was made of a different



40.

box A

box B

box C

box D

- 41. In the diagrams below, a ceiling fan, a florescent light and a water heater are connected in two different ways in a house.
- (a) MARK a cross, (X), on the electrical circuit in Diagram 1 to show the **position of a switch** that **only** causes water heater to stop working when it is turned off. (Do NOT draw the switch.)



42. Jesse set up her experiment as shown below.



material put on each table top was different. Jesse used the same equipment in both set-ups A and B. Only the

Jesse placed a strong bar magnet under each table, ONE at a time, and slid it in the direction indicated by the arrows.

She observed that only the box in set-up B moved while the box in set-up A remained in its original position.

box in set-up B was made of a magnetic material Jesse knew one of the reasons for her observations made was that the

(a) What caused the main difference in Jesse's observations?

Explain your answer.

1

[2]

Nam ups.				
Name a material that was used to make the boxes in both set- ups. [1		-		
am				
. ate	•			
rial				
tha				
. ťwa				
n Si		1		
sed				ļ
6				
mak		· ·	1	.
ket				
hel		-		
XOC				
es :				.
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9

ups.

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	- E
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	-
	- 1
	1
	- F
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	1
	- 1
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	1
	- 1
•	
· ·	- 1
•	
•	1
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	- 1
·	
	•

<u>4</u>3. shown below. Five identical blocks each made of a different material were pulled across a concrete surface from Point X to Point Y, ONE at a time, as



The force needed to pull each block across the concrete surface was measured and recorded in the table below.

ш	D	c	B	A	material of block
19	22	13	25	15	force needed to move each block (N)

(a) block in the boxes below. Arrange in the correct order, the texture of the surface of the



(3) 8 bathrooms? Based on the information above, which material is most suitable to be used in the construction of non-slip mats placed in the 1 1. 11 i Ξ

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•

44. move against air resistance The drag coefficient measures how well a shape "cuts" through air resistance. The lower the drag coefficient, the faster an object can





Drag Coefficient

Based on the information above, answer the following questions:

(a) represents shape B. Put a tick ($\sqrt{}$) in the correct box below the car that best

Ξ



- 9 ANOTHER car, Z, of shape C, moved faster than car X but slower than car Y. Suggest a possible drag coefficient of car Z and DRAW the column of shape C in the graph above. [1]
- <u></u> it moves along a road. Name TWO OTHER forces which each car will experience when

Setters: Mr Vincent Chia, Mrs Martha John, Miss Lim Li Shan

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- END OF PAPER -

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36)structural: P S U behavioural: Q R T	35)a)S→P→R→Q b)All the other organism would reduce in numbers.	34)a)The cell membrane. b)Table 3: brown, brown white, dark blue Table 4: absent, present present, present	 33)a)X: wind Y: splitting Z: water b)Plant Y and plant Z is not reproducing as well as plant X. The building occupied some space on the island, leaving less space for plants to be dispersed. The plants had to compete for nutrients, water and sunlight. 	32)a)Fertilisation. b)X: testes Y: ovaries	31)a)Is it a flowering plant? b)The animals in group 1 and 2 both are warm-blooded. c)1	Q18 Q19 Q20 Q21 Q22 Q23 Q24 Q25 Q26 Q27 Q28 Q29 Q30 1 3 1 2 4 3 2 4 3 3 1 2 2	Q1 Q2 Q3 Q4 Q5 Q6 Q7 Q8 Q9 Q10 Q11 Q12 Q13 Q14 Q15 Q16 1 2 3 2 2 4 4 4 1 4 2 1 4 2 2 3	TERM : SAI	SCHOOL : RAFFLES GIRL'S PRIMARY SUBJECT : PRIMARY 6 SCIENCE	EXAM PAPER 2010	ANOMES SHEET
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37)a)i)C ii)D iii)A iv)B b)900cm3

38)a)A: evaporation B: condensation

then flow into the beaker as C. covered by the cool damp cloth, forming into tiny water droplets, which will water vapour will then rise and condense on the cool surface of the inner tube leaving the salt in the boiling tube while forming into water vapour, the hot b)When the sea water is heated, the water in the sea water will evaporate,

c)water , salt

39)a)2000: B

13 : C

1280 : A

temperature recorded as compared to the other boxes. Box Y rose the fastest as compared to Box X and Z. It has the highest b)Box Y gains heat faster as compared to box X and Z. The temperature in

fastest. Black absorbs the most heat, causing the temperature to rise the

40)The ice cube in D took a longer time to melt compared to A, B and C.

the poorest conductor of heat, causing D to gain heat slowly. The ice cube in D took a longer time to melt as compared to A, B, C as it is



arrangement is a better way. fan to stop working as they are arranged in series, hence diagram 1 is fluorescent light in diagram 2 fuses, it will cause the water heater and ceiling 1, the water heater and ceiling fan will not be affected. However if the have an individual circuit. Hence, if the fluorescent light light fuses in diagram ceiling fan and water heater are arranged in parallel, allowing each of them to b)The electrical circuit in diagram 1. It is because the florescent light, the

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be attracted and moved along with the strong bar. magnetic material, this allows magnetism to pass through, causing the box to through it is an magnetic material. However material Y may be a non 42)a)It is because material X way be a magnetic material, this present magnetism from passing through it , hence the box will not be attracted even

b)Steel.



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