SECONDARY SCHOOL ANNUAL EXAMINATIONS 2004

Educational Assessment Unit – Education Division

FOR	RM 2	INTEG	GRATED S	CIENCE	Time	1hr 30 min
Nam	e				Class	
		A	NSWER AI	L QUESTIONS		
1) Y	ou can catch dis	eases from oth	er people.			
a)	Underline the	three diseases	which you	can catch from of	her people.	
	toothache	f	lu	broken arm	AIDS	measles 3 marks
b)		1		nings that prevent e correct phrases		5 marks
	Washing har	nds	Ea	ting less sugar		
	Not smoking		Sne	ezing into your	handkerchie	f
	Eating enoug	gh fibre	Doi	ng regular exer	cise	
	Keeping Healthy					
	reduces the risks of food poisoning reduces				e risks of lun	g cancer
reduces the risks of tooth decay						
	reduces the	risks of cons	tipation	reduces the	e risks of a he	eart attack

2) a) The drawing shows the Earth, the Sun and the Moon.



ii)	How long does the Earth take to go once round the sun?	1 mark
iii)	How long does the Moon take to go once round the Earth?	1 mark

 b) Peter is making a model to show how the Sun, Earth and Moon are arranged. Choose the things he should use by putting a tick next to one thing in each column in the following table.

Sun	Earth	Moon
cushion	tennis ball	glass
cardboard box	bag of sugar	sugar cube
football	sugar cube	football
apple	grape	table-tennis ball

3 marks

c) Match each fact in the table below to one of the planets. Write the number in the middle column.

fact

- 1. The hottest planet
- 2. Has beautiful rings round it
- 3. Has living things on it
- 4. The smallest planet



3) This is a diagram of the ear.



In the table below write the part of the ear which does each of the following jobs.

Job	Part of the ear
a) This sends messages to the brain.	
b) Sound waves go down this tube.	
c) These 3 small bones pass on vibrations from the ear drum.	
d) This is a coiled tube which sends vibrations to the nerve.	
e) This is a tight skin. Sound waves make it vibrate.	

5 marks

4) From the words below write down the words that matches each of the sentences below.

vibration	image	vacuum	fire	
• Light can	travel through this			
• This is a s	source of light.			
• This is se	en in a mirror.			3 marks
5) The following is a li Underline the ones	•	nical change.		
Diluting orange	juice with water		Eating a choco	late
 Heating soup 			Iron going rust	y
 Burning petrol ir 	n a car engine		Respiration in t	the body
Smoking a cigar	ette		Breaking glass	
				5 marks

What does the taste tell you about vinegar? Tick the correct box.	
It contains salt It is an acid	It contains sugar
b) Litmus can be used to test for acids and alkalis.It is red in acids and blue in alkalis.	1 mark
i) What colour is it in lemon juice?	2 marks
 ii) Complete the sentence below. Substances, which change colour when you add acid or alkali, 	are called
	2 marks
c) The labels have fallen off two bottles. The labels say 'Distilled Water' and 'Sulphuric Acid'.Why should you not taste the liquids to see which is which?	Disting Water
	1 mark

7) Albert tested five substances (A, B, C, D, E) with universal indicator and found their pH number.

He recorded the following results.

substance	Α	В	С	D	Е
pH number	3	7	6	9	1

6) a) Vinegar is sometimes put on chips. It has a sour taste.

a) Which of the above substances are acids?	- 2
b) Which of the above substances is the strongest acid ?	3 marks
c) Which of the above substances is an alkali ?	l mark
d) Pure water is neutral . Which of the above substances could be pure water?	i murk

e) Which **one** of the substances given in the table above would be best to **neutralise** extra acid in the stomach?

8) Matthew carried out an experiment on **rusting**.

He placed 3 shiny iron nails in sealed test tubes **A**, **B**, **C** as shown in the diagram.



10) The drawing shows a fish called a cod.

Match each fact about the cod, to the way it helps the cod to survive.

Write the correct number in the middle column.

Fact about the cod

- 1) it has gills
- 2) it has a tail and fins
- 3) it's body is covered with scales
- 4) it lays many eggs



How it helps the cod to survive
to protect the body
so that some young cod live
to breathe in water
to move easily in water

4 marks

11) A balanced diet contains a variety of foods. The drawing shows 4 different foods.





Milk

chicken

carrot





a) Which of these foods is the best source of:

i)	fibre?	
ii)	calcium?	
iii)	protein?	 2
		3 marks

b) Which of the above food does **not** contain fat? _____

c) Write **true** or **false** near each of the following statements.

- i) We need proteins to grow and repair the body.
- ii) Only carbohydrates give us energy.
- We need a lot of vitamins every day. iii)
- Water is not very important in our diet. iv)
- A lot of fat can make you overweight. v)
- Iron is a mineral needed for healthy blood. vi)

6 marks

12) Look at the food web then answer the questions that follow.



- a) Write two food chains found in the above food web.
 - 1.

 2.

b) Which predator eats the squirrel and the frog?	4 marks
	1 mark
c) Name one prey which is eaten by the frog?	1 mark
d) How many animals eat plants?	
e) What happens to the snakes if all the frogs die?	1 mark

2 marks

13) Rita found the following information.

Foxes eat rabbits. The eagle eats rabbits and birds. These birds eat snails. Rabbits and snails eat grass.

Fill in the missing animals in the diagram below to form a food web showing the above information.



14) Look at these pictures of James and Rebecca parachuting.



a) Who will fall faster ?	
	1 mark
b) Which force makes these people fall?	2
c) Draw an arrow on the picture to show the force which makes Rebecca fall.	2 marks
	1 mark
d) Draw an arrow on the picture to show the force which slows James down whethe parachute.	nen he opens
*	1 mark

15) The diagram shows Doris **pulling** a box on the table.

