## **SECONDARY SCHOOL ANNUAL EXAMINATIONS 2008**

DIRECTORATE FOR QUALITY AND STANDARDS IN EDUCATION

Educational Assessment Unit

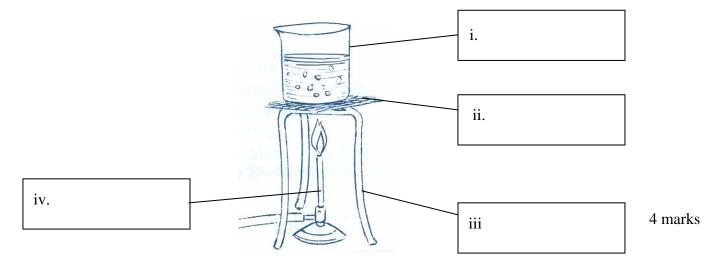
## FORM 1INTEGRATED SCIENCETime 1hr 30 min

Name \_\_\_\_\_

Class

## **ANSWER ALL QUESTIONS**

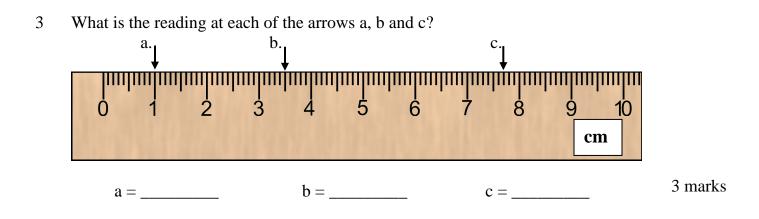
- 1. **The diagram below shows some apparatus used in some experiments.** Answer the following questions.
  - a. Fill in the boxes with the name of the apparatus.



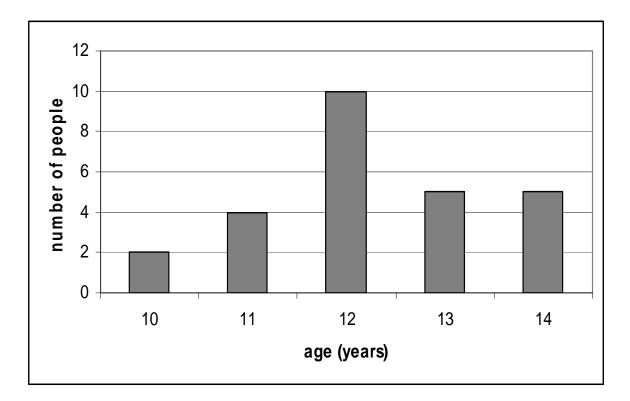
b. Safety is very important when doing experiments. Write down TWO important safety rules.

2 marks

2	Write down what each of these instruments is used to measure:	
	a. a ruler is used to measure	1 mark
	b. a thermometer is used to measure	1 mark
	c. a measuring cylinder is used to measure	1 mark
	d. a balance is used to measure	1 mark



4. **Sue and Terri did a survey in their youth club.** This bar- chart shows the ages of people in their club:



a. How many people are aged 12? \_\_\_\_\_\_ 1 mark

- b. How old is the youngest person? \_\_\_\_\_ 1 mark
- c. How many people are in the youth club? \_\_\_\_\_ 1 mark

5 a. Which main form of energy do these pictures show?





5 marks

b. Write YES or NO in each blank space in the table to show whether each energy source is a fossil fuel or not and whether the energy coming from these sources is renewable or not. One example has been done for you.

Fuel	Fossil fuel?	Renewable?
Solar energy	no	Yes
Coal		
Wind energy		
Oil		
Natural gas		

8 marks

c. Machines are able to change one form of energy into another form. Fill in the table by writing **the main starting energy form** and **the main finishing energy form**.

Starting energy	Finishing energy	
Electrical energy		1 mark
		2 marks

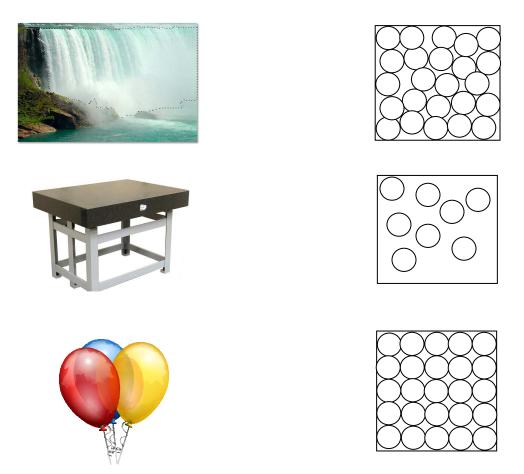
6. Fill in the blanks, choosing words from the following list.

		solvent solute dissolves soluble s	olution
	a.	When salt is mixed with water, the salt in the	water. 1 mark
	b.	Salt is in water.	1 mark
	c.	The water is called the	1 mark
	d.	The mixture is called a	1 mark
7.	i.	Here are some methods of separating mixtures:	
		filtering evaporating evaporating	distilling
		dissolving and filtering chromatog	raphy
		dissolving and filteringchromatogWrite down which method you would use for each of these jo	
			bs.
		Write down which method you would use for each of these jo	bs1 mark
		Write down which method you would use for each of these jo a. Separating sand and water.	bs. 1 mark 1 mark
		<ul> <li>Write down which method you would use for each of these jo</li> <li>a. Separating sand and water</li></ul>	bs. 1 mark 1 mark 1 mark
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ii. A tea-bag is a filter. Write down what things you think it separates.

2 marks

8 Match each of the picture on the left with the correct arrangement of the particles on the right by drawing a line between them.



3 marks

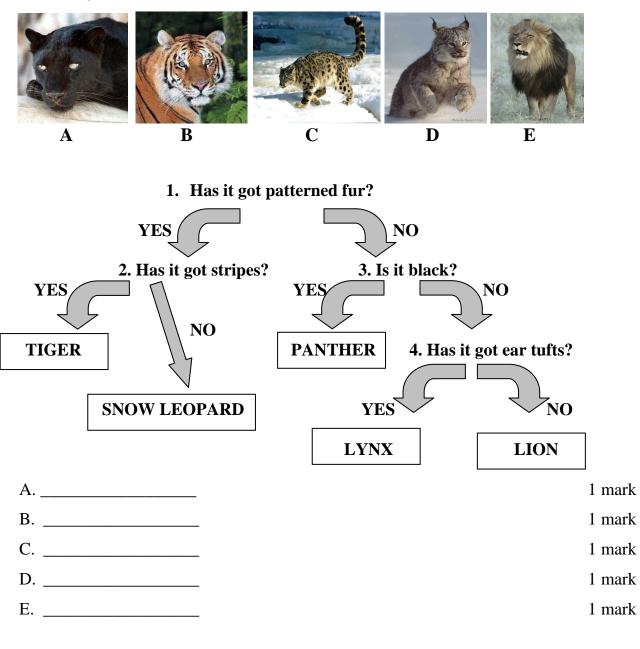
9. Complete the following sentences. Use the words below to fill in the blanks.

bones	snail soft			rabbits vithout	bac beetles	kbones		
Vertebrates are	e animals	which	all have			They	have	
	inside	their	bodies.	Examples	of	vertebrates	are	
	,		and	1	·			
Invertebrates ar	e animals _			backbones w	which oft	ten have ver	У	
bo	dies. Exan	nples of	invertebra	tes are		_ and	9 mar	ks

## 10. We can find what an organism is by using a key.

Here is a key you could use on a visit to a zoo to help you identify members of the cat family.

a. Identify the animals in pictures A to E by answering YES or NO to the questions until you arrive at the name of the animal. Write your answers below.



Use the cat key to help you describe the following animals.

a. A panther is	_ 1 mark
b. The fur of a tiger has	1 mark
c. A lynx has	1 mark
d. A snow leopard has fur	1 mark

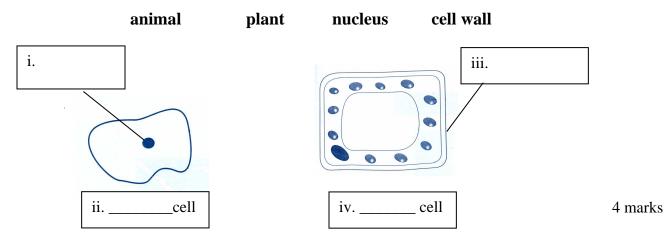
11a Fill in the blanks choosing words from the following list.

	cells	animals	body	plants	
i. Animals a	nd	are living	things.		1 mark
ii. Living thi	ngs are made f	rom	·		1 mark
iii. There are	millions of cel	lls in your			1 mark

b. Write down the word which goes with each of these.

	tissue	nucleus	chloroplast	cell wall	
i.	Controls what a cel	1 does:			1 mark
ii.	Takes in the energy	in sunlight:			1 mark
iii.	A group of similar	cells:			1 mark

c. These diagrams show two cells. Put the following labels in their place.



d. Write down TWO things which are in a plant cell but not in an animal cell.

2 marks

e. From the list of words below choose the correct one for each of these.

i.	Sperms are made in these:	1 1
ii.	Eggs are released from these:	1 mark
iii.	A sperm joining with an egg:	1 mark
		1 mark

ovaries	testicles	fertilization	menstruation
0141105		iei unization	memori aacion

12. Look at the following list of words.

	carbon dioxide	sulphur dioxide
oxygen	copper oxide	aanhan manarida
		carbon monoxide
	nitrogen	carbon

a. Name THREE elements from the above list and write their symbol.

Name of element	Symbol
1.	
2.	
3.	

6 marks

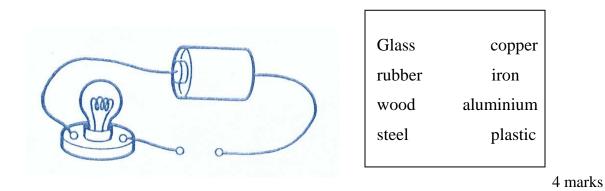
2 marks

b. Name ONE compound from the words above. \_\_\_\_\_\_ 1 mark

c. Give the TWO compounds which are both formed from the same two elements.

- d. Elements are divided into **metals** and **non-metals**. Which TWO of the following are properties of metals. Tick the correct answers.
  - o They are white
  - They are shiny
  - They are good conductors of electricity
  - They are strong

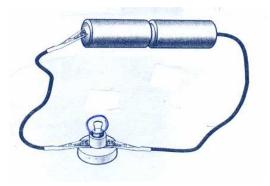
13. Sara made this circuit to test which things conduct electricity. Choose the 4 things from this box that would complete Sara's circuit. Underline your answers.



14. a It is much quicker and easier to make drawings of circuits if we use symbols for the components. Complete the following table

Name	Bulb	Switch	wire	Cell	
Picture					
Symbol					
					4 marks

b Use symbols to draw a diagram which represents the circuit below.



2 marks

END OF PAPER. PLEASE CHECK YOUR WORK AGAIN