SECONDARY SCHOOL ANNUAL EXAMINATIONS 2005

Educational Assessment Unit – Education Division

FORM 1	INTEGRATED SCIENCE		Time 1h	r 30 min
lame Class				
	ANSW	ER ALL QUESTIONS	\$	
a) These are some	e common app	paratus which is used in	a science laborator	y.
Write down the	e name of each	h apparatus.		
(i)	(ii)	(iii)	(iv)	
(i)		(ii)		
(iii)		(iv)		
(111)		(1v)		(4 marks)
b) Complete the f	following table	e about different measur	ing instruments.	
The first one h	as been done	as an example		
Measuring	g Instrument	What it measures	Unit	
Thermome	ter	Temperature	°C	
		Length		
Clock				
		Volume of water	ml	
Balance			kg	
				(6 marks)
c) Safety is impo	ortant when do	ing experiments in a scient	ence laboratory.	
Write down T	WO importan	t safety rules.		
				(4 marks)
	a) These are some Write down the (i) (ii) (iii) (iii) (iii) (b) Complete the first one h (a) Measuring Thermome (b) Clock (c) Safety is imposed	a) These are some common app Write down the name of each (i) (ii) (iii) b) Complete the following table The first one has been done at the first one ha	a) These are some common apparatus which is used in Write down the name of each apparatus. (i) (ii) (iii) (iii) (iii) (iii) (iii) (iii) (iv) (iv	ANSWER ALL QUESTIONS a) These are some common apparatus which is used in a science laborator Write down the name of each apparatus. (i) (ii) (iii) (iv) b) Complete the following table about different measuring instruments. The first one has been done as an example Measuring Instrument What it measures Unit Thermometer Temperature Clock Length Clock Volume of water ml Balance kg c) Safety is important when doing experiments in a science laboratory.

2) a) Nicole thinks that the sun is a living thing.

Anne does not agree. She thinks that the sun is a non-living thing.

Who is correct, Nicole or Anne?

(1 mark)

b) Animals with a backbone are called **vertebrates**.

Match the following five groups of vertebrates with their correct description by putting the corresponding letter in the middle column.

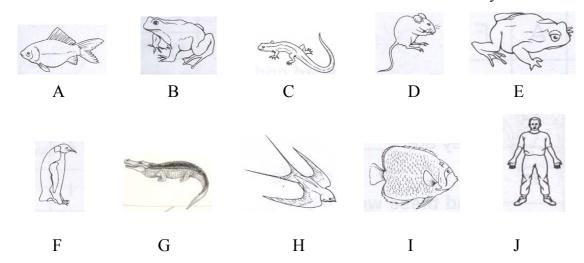
One has already been done for you.

	Group
a	Fish
b	Reptiles
С	Amphibians
d	Birds
e	Mammals

	What they look like
	Covered in dry scales
a	Covered in scales
	Covered in feathers
	Covered in hair or fur
	Covered in moist skin

(4 marks)

c) Which **vertebrate group** does each of these animals belong to? Write down the letter of the animal in the table below. The first one has been done for you.



Fish	Reptiles	Amphibians	Birds	Mammals
A				

(9 marks)

- 3) This question is about **fuels.**
- a) A fuel is a substance which burns to produce energy.

The following pictures show some things, which use energy from fuels to work.

In the space provided write down the **name of the fuel** being used in the picture.

Choose your answers from the following words.

light, diesel, fire, wax, gas, water, wood, electricity,

Picture		
Name of fuel		

(4 marks)

- b) **Underline** the correct words to complete each sentence.
 - i) Fossil fuels are formed from things that lived (hundreds / millions) of years ago.
 - ii) Fossil fuels are a (non-renewable / renewable) energy source.
 - iii) When fossil fuels burn, they produce (energy /oxygen). (3 marks)
- c) Complete the following table by ticking () the correct boxes.

	Renewable energy source	Non-renewable energy source
Coal		
Wind		
Waves		
Sunlight		
Wood		
Oil		
Gas		

(7 marks)

4) Complete the following changes to show the main energy change taking place. The first one has been done as an example. sound energy (ii) stored energy (i) movement energy light energy (iii) (iv) movement energy (vi) (v) __ (7 marks) 5) a) This question is about **an experiment**. Some water is mixed with sand and passed through a filter paper as shown in the diagram. Answer the following questions about this experiment: i) What is the name of this experiment? (1 mark) ii) What is collected in the beaker? (1 mark) iii) What remains in the filter paper? (1 mark) iv) Is the water pure? (1 mark)

		rs from the fol	-	u use to obtain th	ne following?	Choose your
Cl	hror	natography,	melting, distill	ation, sorting,	evaporation,	boiling
	i)	Pure water fro	om a mixture of	sea water.		(1 mark)
	ii)	Salt from sea	water			(1 mark)
	iii) Red colour f	rom a mixture o	f different inks _		(1 mark)
a) M	[elti	ng, boiling, from	eezing and cond	ensing are the name aning by writi	nmes of four cl	nanges of state. onding number in
		Name]	Change of st	ate	
	1	melting		liquid to gas		
,	2	boiling		gas to liquid		
	3	freezing		solid to liquid		
	4	condensing		liquid to solid		
						(4 marks)
	ox A d C.	-	es in a solid. Dra	aw the particles i	n a liquid and	a gas in boxes B
	A.	. Solid	B. Liqui	d	C. Gas	

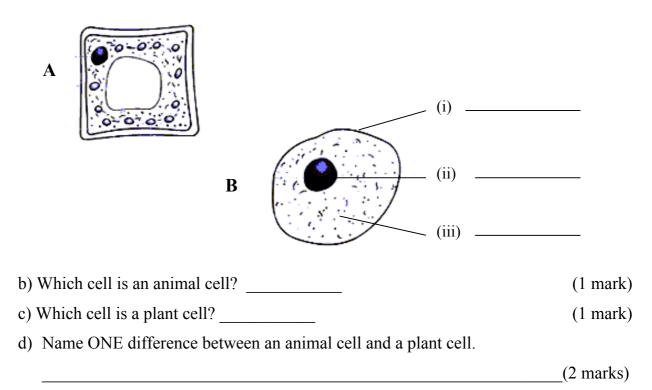
6)

(2 marks)

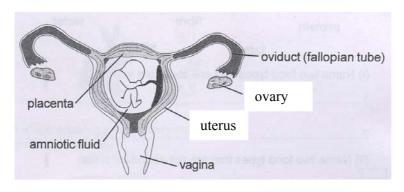
- 7) The following diagrams show two **cells**.
 - a) In cell B, write down the name of (i), (ii) and (iii). Choose your answers from the following words.

(3 marks)

Cell wall, nucleus, cytoplasm, cell membrane, vacuole, chloroplast



8) The diagram below shows a **baby developing** inside its mother's body. Use the words on the diagram to answer the following questions.



(i)	Where are the eggs produced?	(1	mark)
()			,

(ii) What protects the baby when still inside its' mothers' body?

_____ (1 mark)

(iii) One of the parts labelled in the diagram passes food from the mother to the unborn baby. Name this part. (1 mark)

wood, plastic,	copper,	glass,	iron,	aluminium,	rubber,	gold
(i) conductors: _					,	
(ii) insulators: _					_,	
b) Name ONE ma	starial from th	na ahowa	list			(8 marks)
that can be pl			1151			
to make the b	_	Т				
						(1 mark)
These are the syn			ing elect	ric circuits.		
a) What does each	ch symbol sho	ow?				
1						
1	-(>) —	New Chi	1.260	_/	
(i)	(ii)	<u>)</u> —	(iii)	(iv))	(4 marks)
						(4 marks)
	if a bulb is a					(4 marks)
) What happens Tick the corre	if a bulb is a	dded in t			e other bul	(4 marks)
What happens Tick the corre They de	if a bulb is a ect box	dded in t		t in series to the	e other bul	(4 marks)
) What happens Tick the corre They de	if a bulb is a ect box o not light up ave the same	dded in t		t in series to the	e other bul	(4 marks) b.
) What happens Tick the corre They de They has brightn	ect box o not light up ave the same ess	dded in t		t in series to the	e other bul	(4 marks)
) What happens Tick the corre They de	ect box o not light up ave the same ess	dded in t		t in series to the	e other bul	(4 marks) b.
) What happens Tick the corre They de They has brightn	ect box o not light up ave the same ess	dded in t		t in series to the	e other bul	(4 marks) b.

9) The following are different materials.

Look at the following list of words:	
oxygen carbon dioxide sulphur dioxide carbon copper oxide carbon monoxide nitrogen copper	
(a) Name three elements from the words above:	
(i)	(1 mark)
(ii)	(1 mark)
(iii)	(1 mark)
(b) Name two compounds from the words above:	
(i)	(1 mark)
(ii)	(1 mark)
s question is about metals.	
These are four properties of most metals.	
 Metals are good conductors of electricity. Metals are good conductors of heat. Metals can be polished and have shiny surfaces. Metals are strong. 	
Choose from this information to say why	
i) garden spades are made out of metals;	
<u></u>	(1 mark)
ii) rings are made out of metals;	
	(1 mark)
iii) saucepans are made out of metals;	
	(1 mark)
iv) wires are made out of metals;	
	(1 mark)
	oxygen carbon dioxide carbon monoxide carbon copper oxide carbon monoxide nitrogen copper (a) Name three elements from the words above: (i)