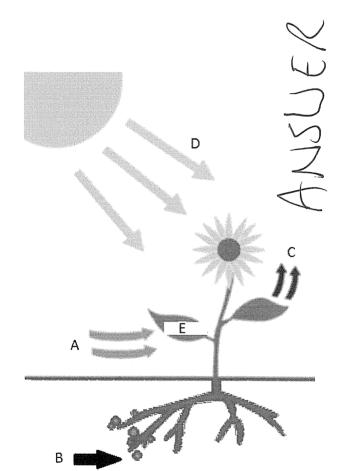
8 SCIENCE 2014

BIOLOGY TEST ONE

Name:	Teacher: _	Teacher:		/52
TEAC	HER	COPY	Percentage:	%
SECTION A:	MIIITIDIF	CHOICE	(15 marks)	

Select the most correct answer for each question below.

- **1.** Look at the diagram on the right. Choose the correct statement below.
 - 'A' refers to carbon dioxide.
 - (b) 'A' refers to oxygen.
 - (c) 'A' refers to sunlight.
 - (d) 'A' refers to nutrients.
- **2.** Look at the diagram on the right. Choose the correct statement below.
 - (a) 'B' refers to carbon dioxide.
 - (b) 'B' refers to soil.
 - (c) 'B refers to nutrients.
 - (B' refers to water.
- **3.** Look at the diagram on the right. Choose the correct statement below.
 - (a) 'E' refers to chloroplast.
 - (b) 'E' refers to glycerol.
 - (E' refers to glucose.
 - '(d) 'E' refers to cytoplasm.
- **4.** Look at the diagram on the right. Choose the correct statement below.
 - (a) The diagram shows the process of plant eating.
 - The diagram shows the process of photosynthesis.
 - (c) The diagram shows the process of protosynthesis.
 - (d) The diagram shoes the process of photothesis.



- Choose the correct definition for 'microscopic'.
 (a) A scientific piece of equipment.
 (b) An object made of atoms.
 (c) Describes objects that can only be seen using a microscope.
 (d) A type of magnifying lens.
- **6.** Choose the correct definition for 'magnified'.
 - (a) Made brighter.
 - (b) Made clear.
 - (c) Made smaller.
 - 🕽 (Made bigger.
- **7.** Choose the correct definition for 'image'.
 - (a) A photo of a specimen.
 - (b) What is seen using the microscope.
 - (c) An inverted specimen.
 - (d) The object being looked at through a microscope.
- **8.** Choose the correct definition for 'specimen'.
 - (a) The slide with film.
 - (16) The object being looked at through a microscope.
 - (c) Plant or animal cells.
 - (d) What is seen using the microscope.
- **9.** The microscope on the right is known as a:
 - (a) Electron microscope.
 - (b) Binocular microscope.
 - (c) Stereo microscope.
 - Light microscope.



- **10.** When a dead plant or animal is cut apart to be studied, this is called a:
 - (a) Biology.
 - (b) Butchery.
 - Dissection.
 - (d) Intersection.

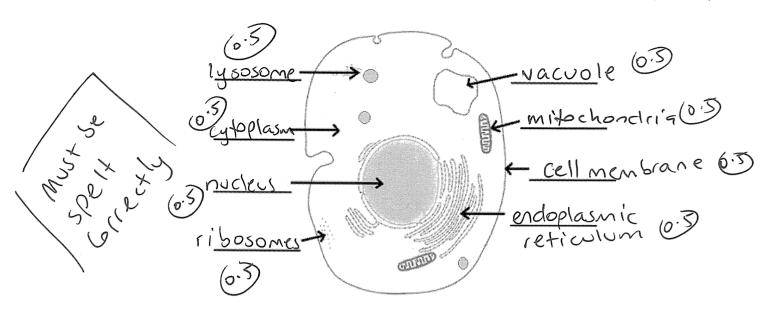
	(a) More of the specimen.
	(b) Less of the specimen.
	(c) More intensity.
	(d) Less intensity.
12.	The organelle containing the genetic information (DNA) is called the:
	(a) Cell membrane.
	(b) Nucleus.
	(c) Cytoplasm.
	(d) Mitochondria.
13.	The amount of the specimen you can see through a microscope is called the:
	(a) Field of view.
	(b) Magnification.
	(c) Illumination.
	(d) Image.
14.	Organelles that both plant cells and animal cells contain are:
	(a) Cytoplasm, nucleus, cell wall, vacuole.
	(b) Nucleus, chloroplast, cell membrane, vacuole.
	Cell membrane, nucleus, vacuole, cytoplasm.
	(d) Cytoplasm, cell membrane, cell wall, nucleus.
	(a) Cytopiasiii, ceii ilieliistalle, ceii wall, liucleus.
15.	Organelles that both animal cells and fungal cells contain are:
	(a) Chloroplast, cytoplasm, cell membrane, nucleus.
	(b) Chloroplast, cytoplasm, nucleus, cell wall. Cell membrane, nucleus, cytoplasm, mitochondria.
	(d) Cell membrane, cytoplasm, nucleus, cell wall.
	(, , , , , , , , , , , , , , , , , , ,

As the magnification of a microscope increases, then you can see:

11.

1. Label the diagram of the animal cell below.

(4 marks)



2. Label the diagram of the plant cell below.

(3 marks)

(2 membrane 6.5)

(4 loroplas to 5)

(2 uauole 6.5)

(3 marks)

Animal cells do not have chloroplast, plant cells

do have chloroplast. Animal cells do not

have cell walls, plant cells do have

cell walls.

Organelle	Function
Mitochondria	The organelle that produces energy.
Ribosomes (0.5)	Organelles that make proteins.
Nucleus	The control centre of the cell
Endoplasmic (0.5) reticulum	Organelles that move materials through the cell.
Cytoplasm	Jelly-like material that organelles gloat in.
lysosomes 6.5	Organelles that remove waste from the cell.
Chloroplast	photosynthesis occurs
vaccole 6.5	Structure that stores materials in the cell.

9. The things you look at under the microscopes are so small so cm or mm are not used. (1 mark)

State the unit of measurement used to look at things under a microscope and the symbol for the unit of measurement.

	micrometre	MM		
	6.5	(0.5)		
10.	Write a definition for electron	on microscope.		(2 marks)
	A microsape	that use	s beans	4
	electrons to	magnily	•	
	(0.3)	6.5		

Part of microscope	Function
Mirror	Directs light up through the stage & specimen. (0.5)
Fire Gous 6.5	Used to focus the image on high power.
Stage	where the specimen is placed.
Carse Gus	Used to focus the image on low power.

Describe how you would safely carry a microscope.			(2 marks)
one hand under base			
one hand holding han	dle W		
13. Fill in the missing words.		_	(2 marks)
There are three <u>objective</u> lenses. The three magnifications are 4×6.5 and 40×10.5			
The three magnifications are $\underline{\qquad \ \ \ \ \ }$, $\underline{\qquad \ \ \ \ }$, $\underline{\qquad \ \ }$, $\underline{\qquad \ \ }$	and	rox.	
14. Circle either true or false for the following state	ements.		(2 marks)
Fungal cells have the same organelles as animal cells.	True	False	
Fungal cells do not have a cell wall.	True	False	
Fungal cells have chloroplasts.	True	False	
Fungal cells are not able to make their own food.	True	False	

4.	Explain the difference between an ocular microscope and a binocular microsco	pe. (2 marks)
	Owlar microsupe has one own	cr
	lers. Binowlar microscope hast	tuo
	lers. Binowlar microsupe hast owner lesses.	
5.	Write a definition for the word 'organelle'.	(2 marks)
	The smallest parts of a cell.	,
	() () ()	
6.	Fill in the missing words.	(3 marks)
Ctono		(o marko)
the	eo microscopes are different to light microscopes because there is no <u>ught</u> <u>Specimen</u> on the stage. Instead, light that shines onto the specimen <u>refle</u>	_ going through とける back
	nrough the lenses to create the images.	Dack
	-	under a stereo
micro	means that the specimen does not need to be thinly sliced, anything can be placed oscope and of specimens can be carried out while watching	g through the
	oscope. Stereo microscopes are <u>binocolo</u> microscopes and create	
imag		
7.	Label the diagram of the microscope below.	(4 marks)
	Take 0.5 off for each incorrect label-must be spelt or eyepiece lens	
	barrel (0.5) coarse bows mol	. (0.5)
-	Objective lenses fine lows knows	
	handle (or a)	n) (0.5)
	millor base 6.5	<u>)</u>