

## SCIENCE CENTRE

Location: Maganjo, opposite Pr. Deo's church near Maganjo Grain Millers Contacts: 0701467746 / 0787119579.

Email: <u>atomsciencecentre@gmail.com</u> Facebook: Atom Science Centre-Maganjo

## **SENIOR TWO BIOLOGY**

**DURATION 1Hrs: 30 MINS** 

**Instructions:** Attempt all questions

9.

A. Swamp

## **SECTION A**

1.		Which name is given to a group of individuals that can reproduce to produce fertile offspring?							
		A. Genus	B.	Kingdom	C.	Spe	cies	D.	Organ system
<ol> <li>3.</li> <li>4.</li> </ol>		In animals, what is formed by A. Cell B.		oy blood? Tissue	C. Organ		an	D.	Organ system
		Which system is used for naming species? A. Binomial B. Conservation				chotor	nous	D. Na	tural selection
		The table shows some features of animals. Which animal could be a bird?							
		Feature							
		Feathers	Gills	Hair	Win	ıgs	KEY	Y	
	Α.	×	✓	✓	×		X =	Absen	nt
	В.	✓	✓	×	×		✓ = Present		nt
	C.	✓	×	×	✓				
	D.	×	×	✓	✓				
5.		A student draws a diagram of a plant cell. The diagram is 40 mm in width. The plant cell is 0.02 mm in width. What is the magnification of the student's drawing?							
		$A. \times 0.005$	$\mathbf{B}.\times$	80.0	C.×20	00	$D. \times 2$	2000	
6	· •	Which type of A. Amphibian	f living anima n B. Fi	0 /	• /	<b>ly ski</b> i ammal		Repti	le
7	<b>.</b>	What is the he A. Cell	eart? B. Organ	C. Organ sy	rstem	D. T	Tissue		
8.		Which substance is transported by xylem vessels? A. Carbon dioxide B. Oxygen C. Sugar D. Water							

C. Rocks

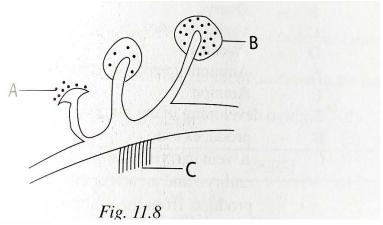
D. Humus

Breathing roots are common with plants living in which soils?

B. Dry soil

10.	Which process involves the re A. Breathing B. Nut		om food substar Respiration	nces in all living cells?  D. Transpiration
11.	What is the correct order of a with fewest legs?  A. arachnids →crustaceans → B. crustaceans →myriapods C. insects →arachnids →my D. myriapods →crustaceans	→insects →myriap →insects →arach riapods →crustac	pods inids eans	most legs to those
12.	What is the total magnification x4? A. x14	on got from the eye B. x6	e piece marked x C. x40	x10 and objective lens D. x400
13.	Which characteristic is shown A.Excretion B. Mov	-	nells a gas in the Respiration	e air? D. Sensitivity
14.	The scientific name for huma A.Phylum B. Gen	-		omo refer to? Species
15.	A fish obtains its oxygen from A.The Oxygen of H2O C. The air		The oxygen diss d	solved in water
16.	Many Fungi get their food by A.Absorbing nutrients from the soil B. Secreting enzymes into dead organic matter C. Ingesting other organisms and digesting them D.Making their food during photosynthesis			
17.	In a flowering plant, the <i>spon</i> A.Roots B. Stem		be found in . Fruit	
18. 19.	The root of a flowering plant A.Epidermis B. Roo Which of the following is true A.They respire. C. Their cells have cell walls.	ot hairs C. e of all living orga B. They	Phloem D. 2	Xylem cells.
20.	Which one of the following conditions A. They suckle their young.  C. Their bodies have covering	B. They	ossessed <b>only</b> by have a spinal col are 'warm-blood	lumn.
21.	Which of the following are cha.Made up of many cells. C. Cells have nuclei.	B. Contai	ants <b>but not</b> of a n chlorophyll. n cytoplasm in tl	
22.	Which of the following distin A.External ears. C. Five-fingered hands.	B. Have a	-	mates?
23.	Malaria is transmitted by A.Droplet infection C. Mosquitoes	B. Contan D. House	ninated water flies	
24.	Which of the following stater A. Are specialised C. Have a cell wall	B. Contai	cells in chloroplasts. a cell membrane	2.

25.	Which of the following is not a common characteristics of living things?  A. locomotion B. Movement C. excretion D. reproduction.
26.	The function of white blood cells in the body is to
27.	Which of the following cells in the leaf contain the least number of chloroplasts?  A. palisade cells  B. guard cells  C. Epidermal cells  D. spongy mesophyll cells
28.	Which of the following features belong to both an arachnida and an insecta?
	A. cuticle and two pairs of wings  B. six legs and two pairs of wings
29.	C. six legs and antennae D. jointed legs and cuticle. Which of the following organisms is an autotroph?
	A. Tick C. Yeast
20	B. Mushroom  D. Algae
30.	Which cross section of angiosperms is represented below?
	A. Monocot stem.
	B. Dicot stem.
	C. Monocot root
	D. Dicot root
	SECTION B
31.	The figure below is a rhizopus (common bread mould). Study the figure and answer
	questions that follow.
	B



a) To which kingdom does a rhizopus belong?

b) Name the parts A to E.	
A	
В	
C	
c) Give five economic importance of the King	gdom identified in 32 (a) above.
••••••	
2. The diagram below shows a transverse section	n of a dicot root. Use it to answer the
questions that follow.	A of a disortion of the to allower the
1	
A	
В	
E -	
D	
c ))	
(a) Name the parts A to E.	
A	В
C	D
E	
(b) State the function of the following parts;	
A	
D	

**32.** 

(c)	(c) What collective name is given to D and E.  (d) Outline two primary functions of roots.					
(d)						
(e)	State a	any two root modifications a	nd their functions.			
33.	schoo flow o	ol compound and outlined the	ed four insects; A, B, C and I e characteristics of each. She make a dichotomous key; in cow chart that she drafted.	then came up with a		
			oole collection (A,B,C,D)			
Has	s suckii (A,E	ng mouth parts  D)	Has biting mouth parts (B,C)			
Has 2 p		wings Has 1 pair of win (A)	ngs Has spines on legs (B)	Has no spines on legs (C)		
	(a)	From the flow chart above:	:			
		(i) Outline any three cl	haracteristics of specimen D.			
	(ii) State any one example of an insect that could be represented by specin our environment.					
	(b)	Outline any two distinguish	hing characteristics of insects			

(c)	From the flow chart above, construct a dichotomous key to identify specimens A, B, C and D.