BIOLOGY FORM TWO NECTA 2017

Solutions from: Maktaba by TETEA

By Yohana Lazaro

1.

i	ii	iii	iv	V	vi	vii	viii	ix	х
В	С	В	С	С	D	С	Α	В	С

2.

i	ii	iii	iv	V	vi	vii	viii	ix	х
False	False	False	True	True	True	False	False	True	False

3.

i	ii	iii	iv	V
E	С	Н	D	А

- 4.(i) Species
 - (ii)Natural classification.
 - (iii)Kingdom.
 - (iv) Classification.
 - (v)taxonomy nomenclature.
- 5.Steps of scientific process.
- -observation.
- -hpothesis
- -experimentation

-Data	analı	/SIS

(b)Lens is used to magnify small objects so that can be visible easily.

6(a)(i) A parasite is an organism that lives on or in a host organism and gets its food from or at the expense of its host. There are three main classes of parasites that can cause disease in humans: protozoa, helminths, and ectoparasites.

(ii)host is an organism which provides shelter for parasites. Parasites will live on the animal and may lay their eggs on them.

(iii)Community, also called biological community, in biology, an interacting group of various species in a common location. For example, a forest of trees and undergrowth plants, inhabited by animals and rooted in soil containing bacteria and fungi, constitutes a biological community.

(b)(i)-tapeworms

-plasmodium

(ii)tsetse flies, fleas, and lice.

7(a)tissue is a group of cells with a similar structure, organised to carry out specific functions. Examples of tissues elial tissue (which forms your skin and the lining of your intestine). An organ like the intestine, lung or liver can contain many different types of tissues.

(b)Cell. Tissue. Organ. System. Organis

(c).

Plant Cell	Animal Cell Do not have plastids		
Have plastids (e.g. chloroplast)			
Have a cell wall (cellulose)	Do not have a cell wall		
Have a large central vacuole	Have small temporary vacuoles (if any)		
Store excess glucose as starch	Store excess glucose as glycogen		
Have plasmodesmata	Do not have plasmodesmata		
Do not have centrioles	Have centrioles		
Do not have cholesterol in cell membrane	Have cholesterol in cell membrane		
Generally have a fixed, regular shape	Generally have an amorphous shape		

8.(a)A-d	luoc	len	ıum
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B-gallbladder.

C-Liver

D-sphincter mu	scles.
E-stomuch,.	F-pancrease
(b)(i)pancreatic amy	ylase.
(ii)pancreatic lipa	ase.
(c)pancreatic amyla glucose.	se hydrolyses starch into disacchiride and trisacxhides which are converted into
9(a)-stomata	
-cuticle.	
-measophyl.	
(b)Features of leav	res
Large surface areaTo	o absorb more light
ThinShort distance	for carbon dioxide to diffuse into leaf cells
ChlorophyllAbsorbs	sunlight to transfer energy into chemicals
Network of veinsTo	support the leaf and transport water, mineral ions and sucrose (sugar)
StomataAllow carbo	on dioxide to diffuse into the leaf and oxygen to diffuse out.
(c)Lactic acid.	
10.FIRST AID TO A P	PERSON BITEN BY SNAKE.
While waiting for	medical help:
-Move the person b	eyond striking distance of the snake.
-Have the person lie	e down with wound below the heart.
-Keep the person ca	alm and at rest, remaining as still as possible to keep venom from spreading.
-Cover the wound v	vith loose, sterile bandage.
-Remove any jewelr	ry from the area that was bitten.
-Remove shoes if th	e leg or foot was bitten.

-Cut a bite wound
-Attempt to suck out venom
-Apply tourniquet, ice, or water
-Give the person alcohol or caffeinated drinks or any other medications
FIRST AID TO A STUDENT FALLEN AT PARADE.
-Fainting occurs when your brain temporarily doesn't receive enough blood supply, causing you to lose consciousness. This loss of consciousness is usually brief.
Make the Person Safe
Lay the person flat on their back.
Elevate the person's legs to restore blood flow to the brain.
Loosen tight clothing.
2. Try to Revive the Person
Shake the person vigorously, tap briskly, or yell.
If the person doesn't respond, call 911 immediately and start CPR if necessary.
If an AED is available, bring it by the person and use it if you have been trained on its use.
3.Turn the Person on Their Side if They:
Is vomiting or bleeding from the mouth
4. Do Home Care for Simple Fainting
If the person is alert, give fruit juice, especially if the person has not eaten in more than 6 hours or has diabetes.
Stay with the person until they are fully recovered.

-Do not:

	Erythrocytes	Leukocytes	Thrombocytes
diagram	Enythrocytes	Ecinomia Basophis	Platelets
origin /life span	approximately 120 days then broken down in spleen	1 day to lifetime if they are memory cells	vary
number / kinds	only 1 type Approximately 600 to 800 rbc to every 1 wbc	5 main w.b.c. lymphocytes are the most common	fragments of megakaryocytes produced in bone marrow
shape, size, nucleus present	disc shaped much smaller than w.b.c. and have no nucleus	Vary in shapes can move using pseudopods and have a large nucleus	no nucleus small and contain a protein to aid in blood clotting
function	carry O ₂	fight infection	blood clotting