BIOLOGY FORM TWO NECTA 2005

Solutions from: Maktaba by TETEA

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1.

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

2.

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

3.

i	ii	iii	iv	٧	vi	vii	viii	ix	х
Н	S	N	D	Р	E	Q	J	Α	L

4(a)

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		

(b) First aid is an immediate assistance given to a victim before taken to hospital.

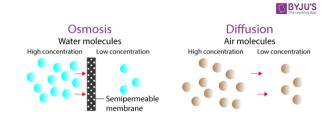
(c)



(d)



5(a)(i)



1(a) (ii) Differences between gaseous exchange and aerobic respiration

seous exchange	Aerobic respiration		
Oxygen simply moves into the organism and CO ₂ moves out;	oxygen is used to <u>oxidise</u> glucose		
process takes place outside the cells	process occurs inside the cells		
physical process	chemical process		
no energy is released	energy is released		
no enzymes involved	enzymes involved		
	Oxygen simply moves into the organism and CO ₂ moves out; process takes place outside the cells physical process no energy is released		

(b)

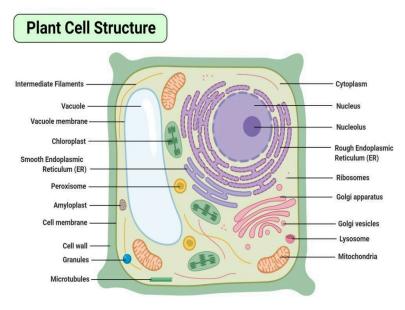


Figure: Plant Cell Structure, Image Copyright Sagar Aryal, www.microbenotes.com

6(a)

Food lacking in diet	Deficiency disease.
Calcium	Hypocalcemia
Vitamin A	Night blindness
Vitamin B ¹	Beriberi
lodine	Goitre
Iron	Anaemia

Vitamin B ³	Pellagra
Vitamin D	Rickets

(b) Elements of carbohydrates are:-
-carbon
-oxygen
-hydrogen
7(a)(i) bacteria
(ii)kingdom Monera
(b)A chromosome
B cell wall
C cytoplasm
D flagella
(c)

- 1. Bacteria are involved in production of many food products such as yogurt, cheese, pickles, etc.
- 2. Bacteria break down waste material so that our environment is not permanently cluttered with garbage, dead bodies, etc.
- 3. Bacteria are responsible for the production of important essential compounds that are necessary for life such as vitamin K production by E. coli in the gut

DISADVANTAGES:

- 1. Some bacteria cause infections or produce toxic substances that are a threat to life and/or health.
- 2. Bacteria cause spoiling of food so that it does not keep as long as we may desire.

8(a)(i) anaerobic Respiration.

- (ii)muscles
- (iii) muscles clamps.
- (iv)0 60 minutes.

4. Anaerobic Respiration

In anaerobic respiration, only glycolysis occurs, so only 2 ATP are made

In animals Glucose Lactic Acid In plants & fungi Glucose Ethanol + Carbon Dioxide

9. WASTE DISPOSAL.

WASTE is the unwanted materials for use.

Waste disposal is the process of getting rid of waste materials.

- -Types of waste materials
- -solid wastes.eg wood, plastics, papers, etc
- -liquid wastes.eg urine, water from industries, used oil, etc.
- -gaseous wastes. Like gasea from industries.

PROPER WAYS OF DISPOSING WASTES

- -by landfills
- -by pit latrine
- -locating special areas for disposing the waste materials.

IMPORTANCES OF PROPER WASTE DISPOSAL.

- -makes the environment beautiful.
- -prevent eruption of diseases
- -prevent the climatic changes.
- -helps to protect environment.

10.GONORRHEA. Gonorrhea is a sexually transmitted infection (STI). It's caused by the bacterium Neisseria gonorrhoeae. It tends to target warm, moist areas of the body, including the: urethra (the tube that drains urine from the bladder) eyes throat vagina anus female reproductive tract (the fallopian tubes, cervix, and uterus) Gonorrhea passes from person to person through oral, anal, or vaginal sex without a condom or other barrier method. -SYMPTOMS. symptoms may include: greater frequency or urgency of urination a pus-like discharge (or drip) from the penis (white, yellow, beige, or greenish) swelling or redness at the opening of the penis swelling or pain in the testicles a persistent sore throat. -discharge from the vagina (watery, creamy, or slightly green) pain or burning sensation while urinating urge to urinate more frequently

-supports recycling of waste materials as they will be available at a special area.

heavier periods or spotting

sore throat

pain during sexual intercourse
sharp pain in the lower abdomen
fever.
Prevention of gonorrhea
The safest way to prevent gonorrhea or other STIs is through abstinence. If you do engage in sexual activities, always use a condom or other barrier method.
It's important to be open with your sexual partners, get regular testing, and find out if they've been tested.
If your partner is showing any symptoms, avoid any sexual contact. Ask them to seek medical attention

You're at a higher risk for acquiring gonorrhea if you've already had it or any other STIs. You're also at a higher risk if you have multiple sexual partners or a new partner.

to rule out any possible conditions that could be passed on.