

### De Mazenod College - Kandana

#### Biology Part I - Grade 12

3<sup>rd</sup> Term Test July 2016

Time 2 hours

#### Answer all questions.

- 1. Which of the following is a linear polymer containing glycosidic bonds.
  - 1 Glycogen
- 2. Glucose
- 3. Sucrose
- 4. Cellulose
- 5. Ribulose

Guanine and cytosine

Adenine and cytosine

- 2. Polysaccharide which is made of polymerization of glacto urinc acid is the major component in
  - Middle lamella
  - Primary cell wall of plant cells
  - 3. Cytoplasm
  - 4. Plasma membrane
  - Exoskeleton of insects
- 3. The pair of purine bases in RNA
  - 1. Adenine and guanine
  - 2. Cytosine and uracil
  - 3. Adenine and uracil
- 4. Select the correct statement
  - 1. More elastin fibres are found in ligaments
  - 2. Nerve fibres and blood vessels are found in cartilage
  - 3. Pores of spongy bones are filled with blood
  - 4. White fibrous cartilages are found in inter vertebral discs
  - 5. Compact bone are not strong as spongy bones
- 5. Presence of high adhesive and cohesive forces of water dose not contribute
  - 1. To provide support in herbaceous plants
  - 2. In movement of guard cells
  - 3. To ascent of sap
  - 4. To grow aquatic plants and algae in deep water\*
  - 5. In blooming of flowers
- 6. When plant is provided with H<sub>2</sub>O labeled with <sup>18</sup> <sub>6</sub>O and normal CO<sub>2</sub>. Which one of the following contains <sup>18</sup> <sub>6</sub>O isotope after photosynthesis?
  - 1. Evolved O<sub>2</sub>

Stored starch

5. Non of the above

- 2. Produced C<sub>6</sub>H<sub>12</sub>O<sub>6</sub>
- 7. Select the incorrect statement regarding proteins
  - 1. All proteins are made up of one or more polypeptide chain
  - 2. Prions are proteins which has the ability to multiply within living cells
  - 3. Catalase is a catalytic protein which hydrolyses H<sub>2</sub>O<sub>2</sub>
  - 4. Thin filaments of muscle fibre contains actin protein.
  - Capsid of a certain virus contains definite number of protein.
- Incorrect pair of comparison between lysosome and peroxisome is

Lysosome

Peroxisome

- 1. Membranous vesicles
- Contain hydrolytic enzymes
- Contains in both plant and animal cells.
- 4. Digest worn out organelles
- 5. Helps in cell death by autolysis

membranous vesicles

contains detoxifying enzymes

contains only in plant cell

helps in photorespiration in plants

not involved in cell death

- 9. Which of the following is not a characteristic similar to both skeletal muscle fibre and smooth muscle . fibre? 1. Unbranched nature. 2. Nervous supply only from autonomic nervous system 3. Neurogenic in contraction 4. Absence of intercalated disc. 5. Extensibility. 10. Select the correct sequence of events that take place in meiosis A. Formation of two daughter cells C. Formation of recombinant nodules B. Separation of homologous pairs D. Pairing of homologous chromosomes E. Arrangement of pairs of homologous chromosomes on the equatorial plane. 1. A, B, C, D, E 3. D, C, B, E, A 5. C, D, E, B, A 2. A, C, E, B, D 4. D, C, E, B, A 11. Which of the following is incorrect 1. Sum of all chemical activates in a cell is the metabolism 2. Cell uses energy released from catabolic reactions for anabolic reaction s to take place 3. ATP acts as an energy carrier in between reactions 4. ATP is an immobile molecule 5. When ATP hydrolyses to ADP, it release 30.6 Kj/mol 12. Which of the following is incorrect regarding C4 photosynthesis? 1. Oxaloacetate is formed within chloroplast of mesophyll cells 2. Malate transport in to bundle sheath cells through plasmodesmata. 3. Within bundle sheath cell, pyruvate is formed after releasing CO<sub>2</sub> 4. Pyruvate transport in to mesophyil cells again . 5. Calvin cycle takes place within bundle sheath cells at a high CO<sub>2</sub> concentration 13. Which of the following is true? 1. Sensory organs are absent in coelenterates 2. Digestive tract is absent in tapeworms 3. Blood circulatory system is absent in mollusks 4. Blood pigments are absent in Arthropods 5. Cephalization is absent in Annelids 14. Which is not occurred in Kreb's cycle? 1. Production of ATP by substrate level phosphorylation 2. Production of 3 NADH molecules and a FADH2 molecule from one pyruvate molecule. 3. Regeneration of citric acid from oxaloacetic acid 4. Production of CO<sub>2</sub> by decarboxylation
  - 5. Production of 2 ATP from one glucose molecule.
- 15. Given below are a few characteristic of an animal attached to rocks and other surfaces of marine environment.

Has a head no eyes. Has a structure on the ventral side of the body by which attaches to the substratum Has a soft body covering. This organism belongs to the class: A Maria and the department of the content of the first of the content of the cont

1. Polychaeta

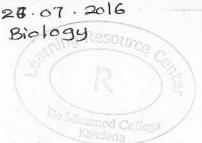
3. Gastropoda

Polycoa S. Bivalvia

2. Holothuroidea

4. Polyplacophora

- 16. Ascomycota differ from Basidiomycota because in Ascomycotes
  - 1. Mycelium is septate
  - 2. Dikaryotic phase is present.
  - 3....Motile structures are absent in life cycle
  - 4. Storage food is starch
  - 5. Sexual spores are endogenous.



- 17. Which one of the following is not relevant in a comparison between Sargassum and Gelidium
  - 1. Both of these organisms are multicellular
  - 2. Both have chlorophyll a ,as photosynthetic pigment
  - 3. Both have cellulose cell walls
  - 4. Both are eukaryotic thallus forms
  - 5. Both have flagellated cells
- 18. Which of the following is not a common feature for both Archea and Eukarya
  - 1. Presence of several RAN polymerase
  - 2. Absence of peptidoglycan in the cell wall
  - 3. Absence of branched lipid chains in plasma membrane
  - 4. Not sensitive to streptomycin
  - 5. Methionine as a starting amino acid for protein synthesis
- 19. Some members of a certain animal phylum shows following characteristics,
  - a. Bear a calcified exoskeleton.
  - b. No cephalization
  - c. Presence of ductless glands

The character that cannot be seen in the above phylum is,

- 1. Unisexuality or bisexuality
- 2. External fertilization
- 3. Nerve ring and the radial nerves
- 4. Asexual reproduction
  - 5. Development through a ciliated larval stage
- 20. Which of the following features are common to both groups of Reptilia and Mammalia?
  - i. Nictitating membrane
  - ii. Teeth within cavities
  - iii. Major excretory product as uric acid
  - iv. Homoeothermic
  - ٧. 12 pairs of cranial nerves
  - vi. Glandular skin
- vii. Body divided into; neck, trunk, and tail
  - 1. a, c, d, e only

3. c, e, g only

5. a, b, ,e, g only

2. d, ,e ,g only

- 4. b, c, ,e, f only
- 21. What is the incorrect statement regarding muscle layers in the wall of alimentary canal?
  - 1. They are mainly composed of smooth muscles
  - 2. Autonomic nervous plexus are present between muscle layers.
  - 3. Consist of peripheral longitudinal muscle layer and the inner circular muscle layer.
  - 4. They produce all types of movements in the alimentary canal.
  - 5. They are situated only between serosa and the mucosa of the alimentary canal.
- 22. Select the correct statement regarding human pancreas
  - 1. It is situated in the curve of the duodenum, anterior to stomach
    - 2. Secretory cells of pancreatic acini produce both enzymes and hormones.
    - 3. Secretion of pancreatic juice is stimulated by the hormone secretin
    - 4. Liver is the only target organ for pancreatic hormones
    - Pancreas produces all enzymes needed for the completion of protein digestion.

23. Select the response correctly matches function, deficiency and the vitamins

Function	Deficiency disease	Vitamin
F – needs for carbohydrate metabolism	Q -Anaemia	Y- cobalamin
G – needs for the synthesis of DNA and RNA	R - pelegra	X – thiamin
H – synthesis coenzyme needed for cellular respiration	P – degeneration of nervous system	Z - nlacin

re	espiration		nervous system	n	
					1.0
1	. F, P, Z 2. G, Q, X	3. H, R, Z	4. F, R, X	5. H, P, Y	
1. A	plant tissue is allow to imme	erse in a sugar	solution of solute potent	tial -800 kPa and to	o reach the
	cipient plasmolysis .Then it i				
	olution of -600 kPa solute po				
	ssue?	A			
1	. 1400 kPa 2. 800 kPa	3, 600	kPa 4. 200 kPa	5. 0 kPa	
5. Se	elect the incorrect regarding	the basic plan	of human blood circulat	orv system.	
	The right arch of the 4 <sup>th</sup> p.				
2.					
3.	et ek				
4.	nd		Imonary arteries		
5.					
5. Se	elect the false statement abo	ut the structu	re and the function of hu	ıman brain.	
1.	Hypothalamus – controls	the autonomic	nervous system		
2.	Cerebellum - coordina	tes involuntar	y muscle movement		
3.	Mid brain - controls t	he reflect mov	rements of eye muscles		
4.	Cerebral cortex - control	mental activiti	es		
5.	Medulla oblongata - cont	rol the blood p	pressure		
7. Se	elect the materials transport	through xylen	1		
Α	- water B – sucrose	C - starc	h D – inorganic io	ons e- fruc	tose
1.	A only	3.	A and Conly	5.	A and E only
2.	A and B only	4.	A and D only		
. Se	lect the major transport ma	terial of carbo	hydrates in plants		
1.	Fructose	3.	Cellulose	5.	maltose
2.	Sucrose	4.	Starch		
	hich one of the following is r				
1.		3.	Acetyl Co – A	5.	Bile pigments
2.		4.	H₂O	3	
	lect the correct statement re		thalamus		
1.					
	Secret inhibiting and relea		S Mariana sa mananananan	Br Recoin (code	dengan Jenggan tahun dan ba
21.00	Respiratory centre is locat				
J. 18 (15)	It fulfills only specific end				specific endocre
5.	Helps to maintain coordin	ation of musc	le fibres and maintain o	f poster	ikom (lagrau) (bg)

There are no valves within lymph vessels
 Lymph collect into blood through subclavian vein
 Lymph has same composition to blood plasma
 Thoracic duct opens to right subclavian vein
 Lymphatic system involve only in specific immunity.

31. Select the correct statement about the human lymphatic system St. Select the correct statement about the human lymphatic system St.

## Biology



- 32. Incorrect statement about human kidney
  - 1. It is a bean shape structure situated retroperitoneal in the abdominal cavity.
  - 2. It is covered by a renal capsule made up of elastic connective tissue
  - Renal pyramids are striated structures situated in the renal medulla
  - 4. Nephron receives blood through afferent arterioles which arise from the branches of renal arteriols.
  - Peritubular capillaries drains blood into general circulation through the renal veins
- 33. Which of the following is correct?
  - 1mm3 of blood of mature healthy person contain 500, 000 red blood cells
  - 2. Platelets are fragments of cytoplasm with nuclei
  - White blood cells can reach to the tissue fluid through capillary walls.
  - 4. Eosinophil are granulocytes without nuclei
  - Some invertebrates have haemoglobin within ells
- 34. Initial curvature of Colocasia petiole is measured as Q angle . Select the incorrect statement.
  - 1. Q is increased in a hypertonic solution
  - 2. Q is decreased in a hypotonic solution
  - 3. When tissue is immersed in a solution it comes to the equilibrium
  - 4. This experiment is used to determine the water potential of tissue
  - Curvature is not change at pure water.
- 35. Which is not a structural adaptation of guars cells which is important in stomatal opening .
  - 1. Guard cell are tightly bound to each other at two ends
  - 2. Presence of curved lateral walls due to kidney shape
  - 3. Presence of chloroplasts
  - 4. Presences of cellulose hoops around the guard cells
  - 5. Presence of thick wall, covering the stomata.
- 36. A process that occurred due to stimulations of human sympathetic nervous system
  - 1. Constriction of pupil of eye

  - 2. Decreasing the blood pressure
  - 3. Inhibition of sweating
- 37. Which of the followings is incorrect about human blood cells.
  - 1. Basophils are modified into mast cells
  - Basophils activates in allergic conditions
  - 3. Neutrophils has the highest number
  - 4. Mainly they are produced in bone marrow
  - 5. Thrombokinasis is not secrete by blood cells
- 38. Not an exocrine secretion.
  - 1. Mucus

3. Saliva

4. Increases the peristalsis

Contraction of urinary sphincter

2. Enterokinase

- 4. Glucagon
- 39. Select the correct statement about the selective absorption in human nephron.
  - 1. Obligatory water resorption is takes place at distal convoluted tubule
  - 2. Nat and Cl are actively reabsorbed
  - 3. HCO3 reabsorption is occurred at proximal and distal convoluted tubules
  - 4. ADH is not important for the water reabsorption at distal convoluted tubules
  - Glucose, amino acid and urea are actively reabsorbed at proximal convoluted tubules. At
- 40. Select the incorrect pair about the structure and function in human respiratory system.
  - Nasal cavity
- filtering and moisturizing of respiratory air
- 2. Larynx
- produced sound
- 3 C shaped cartilage prevent the collapsing of trachea
- 4. Surfactant cells
- secretion of alveolar fluid
- Lungs
- exchange of respiratory gases

Answer questions 41 to 50 using the given information.

1	2	3	4	5
A B and D correct	A C and D correct	A B correct	C D correct	Other combination

41. What is / are the pair/ pairs which contain a protein and a polysaccharide respectively.

	A.	Amylase – Amylose	D.	Pepsin – Glycogen		
	В.	Lipase – Inuline	. E.	Pectin - Suberin		
	C.	Glucagon – Cutine	esse mount of any Ange			
42	. W	nat is/are the true statement/s regarding a	guttation?			
	A.	It is a process that water is removed pas	sively from the plant		RISH COLUMN	
	В.	Water with salt will be lost through leave	es.			
	C.	Responsible to xylem transportation in p	olants			
	D.	Water is lost through hydathodes in leav	res.			
	Ε.	This is a process that can be controlled a		in some plants.		
43	Sel	ect the animal phyla / phylum in which, a			e respiratory gases	
	A.		Annelida	E.	Echinodermata	
	В.	Arthropod D.	Coelenterate			
44.	Wh	nat is / are the functions of mid brain?				
	A.	Changing the size and the shape of the e	eye lens			
	В.	Changing the size of the pupil				
	C.	Maintaining the posture and balance of	the body			
	D.	Maintaining the blood pressure				
	E.	Controlling the heart beat and respirato	ry rate		al management as	
45.	Cor	rect statement/s regarding human erythr	ocytes			
	Α.	Respire anaerobically	personned is per-			
	В.	It maintains high surface area volume ra	atio by its specific sha	аре		
	C.	Can leave out from blood vessels in som	e organs			
	D,	Diameter is lesser than that of leucocyte	· S			
	E.	Less abundant than that of platelets				
46.	Sel	ect the structure which contain haploid st	ructures in Kingdom	Plantae .		
	A.	Pogonatum - protonema, capsule				
	В.	Selaginella - strobilus , archegonia				
	C.	Nephrolepis – prothallus , antheridia				
	D.	Cycas - endosperm , archegonia		- pare - recording to	- 10 gol * 0	
2	E.	Anthophyta – pollen grain , endosperm				
47.	Wh	ich of the followings are correct regarding	g the cardiac cycle?			
	A.	Duration of the cycle is 0.8 seconds				
	В.	Atrio - ventricular valves are closed duri	ng the ventricular sy	stole		
	C.	Aortic valves and pulmonary valves are	opened during compl	lete cardiac diastole		and have been
	D.	Complete cardiac diastole takes more ti	me than the articular	systole	and the <b>Sigh</b> control	Andahia Sas
n days	Ε,	Bicuspid and tricuspid valves are closed	during atricular systo	ole. En Sitias ped and	i minusold valves are dag	d during only
- 48,	Sel	ect the correct order of the following orga	anisms that show the	given featuters 🕮	corder of the following a	rganisms that st
		Squid b . Lizard c. Salam				mender d
er s∦" 1174:	E	lo skalatan Cilla Evanatan and A		u a a de la la a a a como de la c	Tile Freisingerender	en. Galagie in Sachtabate
	EIIC	lo skeleton , Gills , Excretory product as u	rea and urree chami	pereu neart.	one part to be a traited a	oveda energial
	ege contacts	A. a,d,c,b	Triptani. Calangari	ra Godycile	erin mengan mengangkan dalam d	(Paragraph of the Control of the Con
digradan, du		B:a,d,b,c		<u> </u>	er felviralerment, spilitigel Statistical Artist in humanism variety of the negati	i ing panggan ng Panggan ng Manggan ng Kabupatan ng Kabupat ng Kabupat ng Kabupat ng Kabupat ng Kabupat ng Kab Kabupat ng Kabupat ng
		C hade	E. d,b,c,a			

C. b,a,d,c D. c,a,d,b

Biology

49. Select the incorrect combination.

Floral parts of typical Angiosperm

Parts of Selaginella strobilus

A. Carpel

Megasporophyll

B. Stamens

Microsporophyll

C. Anther

Micro sporangium

D. Nucellus

Endosperm

E. Embryo sac

Female gametophyte

50. Select the correct reactions related to C3 and C4 pathways of photosynthesis.

B. 2ADP + 2Pi 2ATP

D.  $4H_2O$   $2O_2 + 4H^+ + 4e + 2H_2O$ 

E. Malate + CO<sub>2</sub> Pyruvate

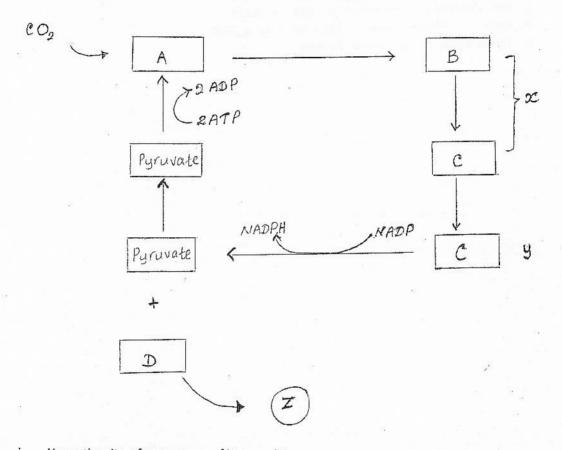
# De Mazenod College – Kandana Biology

Ggrade 12 – 3<sup>rd</sup> Term Test 2016

Time: 3 hours

#### Part A - Structured Essay

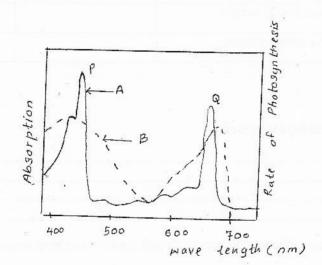
1. A) Following diagram shows you mechanisms involved in photosynthesis.



<ol> <li>Name the site of occurrence of X , y, ar</li> </ol>	10	1 6	4
--	----	-----	---

Χ	**************************	)	***********************	•••••	
γ		495 TAZ		Y	.eeeraaruulka kii ki ka saasa
				an emperation in the state of t	an and same of the same of
<b> 2</b>		or Bearing West	•••••••••••••••••	4:	rasaya di Kanjingajinan d
i. 🦪 a) Nan	ne A ,B , C, and D		ik.	a) Harré A Ju	, C, and D
A	asing subject to the second	Section of the sectio	i stancement forces	4	
	An NGT i Lava englis an an	territoria de la maria de la comoción de la comoció	en er er en en en en er	Sa	wersewiczeniej in erzynne oberne.
В	The second of th	***************************************	200000000000000000000000000000000000000		
C	***************************************	• • • • • • • • • • • • • • • • • • • •	*************		

		b) Name the site of capturing CO <sub>2</sub> by A
	iii.	Write the reduction reactions that take place in photosynthesis mechanism.
	iv.	Name the enzymes that used in the process mentioned in the above ii (b) and in Z cycle.
	٧.	Name two plants that shows the type of photosynthesis mentioned in the above
B)	Given	below are two graphs relevant to photosynthesis mechanism.



i.	Name the graphs marked as A and B
	A
	В
Tampananan ing panggan ang kanalan	As a Name the respective colours and the range of wave lengths of them relevant to the Lordan (1984)
	peak P and Q of graph A.
And an extension of the control of the section of the control of the section of the control of t	Р
	Q

٧.	Name the primary and final electron photosynthesis.	acceptor of the non- cyc	lic phosphorylation of	to 84	
	Primary electron acceptor				
	Final electron acceptor				
<b>.</b>	Complete the given table about C3 ar	d C4 photosynthesis			
	Process	C3 plants	C4 Plants		
	a. First CO <sub>2</sub> acceptor				,
	b. Place of CO <sub>2</sub> fixation			7	
	c. First stable product				
<b>:</b> )				18	
i.	What do you meant by tissue?.			V	
	170771570105105704.55.4.554.614.44.44.44.44.44.44.44.44.44.44.44.44.4				
			÷		
ii.	Name the two kingdoms of organisms	that shows tissue level	organization.		
ii.	Name the two kingdoms of organisms	that shows tissue level	organization.	3.00	
ii.	Name the two kingdoms of organisms  Answer questions a to d using the give		organization.		(
			organization.		
			organization.		
			organization.		<b>)</b>
			organization.	La Contraction of the Contractio	
			organization.		

**	a.	Name	e the tissue given in the diagram.	
		********		
	b.	Name	the parts 1 -5 in diagram	
		1		
		2		***************************************
		3		
		5		• • • • • • • • • • • • • • • • • • • •
	c.	Name t	the main two parts of the given tissue	
	d.	 Write fi	five characteristic features of the given tissue	
		******		
				•••••••
		***********		••••••
	8	••••••••		•
		••••••••		
A.				
i.		What do	o you meant by nutrition?	
				***************************************
ii.	١	lame th	he mode of nutrient of the given organisms.	
			Blue non sulphure bacteria	
			Ntrisomonas	
	رئزوند		Chlorophyta	
			Penicillium	
10 T	Asia.	" e) 1	Mammals	fre palatica traces
10 St. 12 St. 1		f) L	Loranthus (1997)	
	6 3 3 3 5 5 6			laking balangan
		g) C	Orchids and epiphytes	
			Orchids and epiphytes	Programme

i. 	What do you meant by dental formulae ?	
ii.	Write the dental formulae of permanent teeth and deciduous teeth	
iii. 	Write three microbial activities of which causes disease in oral health	C
  iv.	Write four habits to maintain good oral health	
	Explain what do you meant by balance diet with the nutrients should present in it.	
C-'	C	pensialējs 7
	. Name the tissue layers that can be seen in a cross section of stomach wall.	

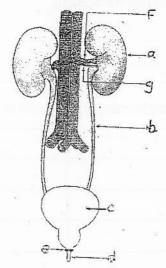
	111	. н	ow small intestine is modified to perform its functions.
		•••••	
	iv.		Vrite three differences of the wall of large intestine that shows than its general arrangement in gut wall.
		• • • • • • •	
		•••••••••••	
A)			
i.			rite a main feature of the given phyla of invertebrate that they differ from one other.
		a.	Coelenterates
		b.	Annelida
		c.	Mollusca -
		· d.	Echinodermata
ii.			rite the invertebrate phyla that possess the given feature
		a.	Triploblastic coeleomates
		b.	Triploblastic, acoelomates
	- *	c.	Bilateral symmetry
		d.	Radial symmetry
iii.			me the respiratory and locomotory structures of the given Phyla
			spiration
		d.	Annelida
			Arachnida
<b>5</b> 7 7		c.	Echinodermata
		Loc	omotion — The second of the se
	-nm	a.	Turberlaria
•	#10 m-10	b	Gastropoda
		c.	Echonodrmata

Name three groups of organisms that they exchange their materials by simple diffusion .
Write two reasons for the need of circulatory system as the size of the body of an organism increase .
Answer the questions using the given diagram.  head  lungs
Intestin-
other organ.

b. Name the groups of animals that the above system is present

Туре	of circulation	Aortic arch	
d. Nam	e the artery and the ve	ein that transport blood in to and out	of the given organs.
rgan	Artery	Vein	3
ead			
ver			
itestine			
		1	
	o substances found in patocytes	blood vessel X and two substance ad	ded to blood vessel
r from ne	epatocytes		
411			
Name the tur			
Name the two		1 H * 11 9 - W.	
1	o types of tissues that	involved in transportation in flowerin	
1	o types of tissues that ee components of 'Pre	involved in transportation in flowering	ng plants.
1	o types of tissues that ee components of 'Pre	involved in transportation in flowerin	ng plants.
	o types of tissues that ee components of 'Pre	involved in transportation in flowerings	ng plants.
1	o types of tissues that ee components of 'Pre	involved in transportation in flowerings	ng plants.
	o types of tissues that ee components of 'Pre	involved in transportation in flowerings	ng plants.
	o types of tissues that ee components of 'Pre	involved in transportation in flowerings	ng plants.
Write the thre	o types of tissues that ee components of 'Pre	involved in transportation in flowering	ng plants.
Write the thre	o types of tissues that ee components of 'Pre	involved in transportation in flowering	ng plants.
Write the thre	o types of tissues that ee components of 'Pre	involved in transportation in flowering	ng plants.
Write the three	o types of tissues that ee components of 'Pre	involved in transportation in flowering sessure Flow Hypothesis'.	ng plants.
Write the three	in parts of the human	involved in transportation in flowering sessure Flow Hypothesis'.	ng plants.

# iii. Answer the questions 'a' to 'c' using the given diagram



a.	Name the parts 'a' to 'g'.	
	a	b
	c	d
	e	f
	g	
b.	Write the functions of parts 'a' to 'g'.	
	a	
	b	
	d	
	f	
	g	
. C.	Write the impact of autonomic nervous on the	structure named as e. The lornary of autonomic nervous on the stri
<b>三八十</b> 城	And the second s	
( ), y	A demand of the second of the	
		EAR CONTRACTOR AND A CONTRACTOR OF THE CONTRACTO
. <b>J.</b>	Name the two types of tubules that contribute	in main function of kidney នេះ មានការប្រជាជននេះក្រុង continuous ក្រុង
o-Crambilla	and the second	
ıı.	Name the function of above two tubules.	

	111.	Ivaiii	e the two types of nephrons in kidney	Kandana College
	iv.	Write	e two differences of the above two types of nephrons .	
	V,	a)	Name the parts of the nephron that forms the malphigean corpuscle .	
	28 28	b)	Explain what type of blood passes through effrent arteriole	
		c)	Name the types of blood capillaries associates with the nephron	
		d)	Name the location of above two types of blood capillaries in the neph	ron.
C)		*******		
i.	. هوء	What	do you meant by co-ordination?	
ii.		Name	the two types of co-ordinations that takes place in human body.	
III.	,	Write	differences between the above two types of co-ordinations.	
on the second	de.	1 6 P 2 P		waste and the second
		14 Table 1		
		**************************************		
iv.		Give or	ne example for each of the above two types of co-ordinations.	
				······································

	٧.	Name	the structural and functional unit of vertebrate nervous system.	
		Structu	ural	4
		Functio	onal	
	vi.	Write t	the three factors needed to maintain the resting potential of neuron.	а
		************		
		,		
<u>p</u> ,	art B	– Essav	Questions.	
А	nswe	r four qu	uestions only.	
	1)			
		i.	Explain the location ,gross structure and tissue arrangement of human stomach.	- 0
		ii.	Explain the structural difference between the arrangement of tissues in the stomach wall and the wall of small intestine and it's importance.	
	2)			*
		i.	What do you meant by transpiration?	
		ii.	What are the internal and external factors that affect on the rate of transpiration?. Explain the effect of those factors on the rate of transpiration.	
		iii.	Explain the importance of reduction of transpiration for plants and adaptations of plants for that .	
	3)	Write	shot notes.	
		i.	Nitrogenous excretory products in animals.	
		ii.	Radial transportation of water in higher plants	
		iii.	Water potential	
	4)	Explair	in the ultra structure of DAN molecule and it's self replication mechanism.	
	5)		an account of blood cell based on origin, structure and it's function	
	· 6)	MX 8 S Tay		Competition of the Competition o
	E COM	Pikisa	Explain: the structure of cytoplasm:	(vitasiaesa
		ii.	Explain the importance of mitochondria growing the importance of	л инсосполагіа
<del>Takabar</del> ara	A Source	ana en la como		
South Lie my		entallization in		Name (Spingerstander) in the second on the