2nd Term Worksheet [2018 – 19]

Subject - Biology Class - VII

Nam	e:	Sec.:
-		<u>Chapter – 4</u>
Chas	le Dainte	[Plant Life]
	k Point:	
[A]		the blanks: [71]
	1.	is a green-coloured pigment present in the chloroplast of the leaf
		cell.
	2.	The stomata remain close when it is
	3.	More light means more
	4.	Photosynthesis occurs in tissues.
	5.	Plant is kept in totally dark room to make it free from
[B]	Fill ir	the blanks: [73]
	1.	The process of respiration leads to production of,
		and
	2.	Aerobic respiration results in ATP molecules while anaerobic
		respiration produces ATP molecules.
	3.	Aerobic respiration takes places in the presence of
	4.	The air is directly carried to the cells, where the oxidation of
		food takes place.
	5.	respiration leads to incomplete oxidation of food.
[C]		one word for the following: [76]
[C]	1.	Fine pores present on the surface of most of the leaves.
	1.	The poles present on the surface of most of the leaves.
	2.	Tiny openings present on the mature roots and woody stems of some trees.
	3.	Process responsible for synthesis of food from carbon dioxide and water.
	4.	Process which is responsible for oxidation of food into carbon dioxide, water and release
		of energy.
Keyv	vords:	[76]
Aero	bic resp	ration:
	•	spiration:
	iration:	
rtoop	n attorn	
Lent	icels:	
Stom	nata:	

Exer	cise:				[77	-80]			
[A]	Multi	iple Ch	noice Questions:		[77]			
	(i)	In w	hich of the following cell organelles o	does pl	notosynthesis occur?				
		(a)	Mitochondria	(b)	Chloroplast				
		(c)	Chlorophyll	(d)	Golgi bodies				
	(ii)	How	many guard cells are present in a st	toma?					
		(a)	4	(b)	3				
		(c)	2	(d)	5				
	(iii)	Whic	ch sugar is produced during photosy:	nthesis	s?				
		(a)	Sucrose	(b)	Lactose				
		(c)	Glucose	(d)	Fructose				
	(iv)	Whic	ch of the following forms of carbohyd	rate is	broken down during respiration?				
		(a)	Fructose	(b)	Sucrose				
		(c)	Glucose	(d)	Lactose				
	(v)	Whic	ch of the following is a by-product of	anaer	obic respiration take place?				
		(a)	Oxygen	(b)	Nitrogen				
		(c)	Ethyl alcohol	(d)	None				
	(vi)	In w	oiration?						
		(a)	Cytoplasm, endoplasmic reticulur	n (b)	Mitochondria, chloroplast				
		(c)	Mitochondria, cytoplasm	(d)	Endoplasmic reticulum, mitoch	ondria			
	(vii)	In pl	ants, the lenticels are found on						
		(a)	Woody stems, mature roots	(b)	Underside of the leaf				
		(c)	On surface of young green stems	(d)	None of these				
[B]	Fillir	Fill in the blanks: [77]							
	1.	When light intensity decreases, rate of decreases.							
	2.	Cond	centration of	_ incre	ases the rate of photosynthesis.				
	3.	element is involved in opening and closing of stomata.							
	4.	$C_6H_{12}O_6 + \underline{\hspace{1cm}} \rightarrow 6CO_2 + 6H_2O + Energy$							
	5.	are tiny openings present on the mature roots and woody							
		of so	me trees.						
[C]	Write	rite T for true and F for false statements: [77]							
	1.	Carbon dioxide and water are the by-products of photosynthesis							
	2.	The rate of photosynthesis is low at high temperature							
	3.	Aerobic respiration takes place in the absence of oxygen							
	4.	Incor	mplete oxidation of food takes place	in ana	erobic respiration				
	5.	Resp	viration occurs during day time and r	night.					
[D]	Give	one wo	ord for the following:			[78]			
	1.	Gree	en-coloured pigment present in the cl	nlorop	last of the leaf cell.				
	2.	Process in which carbon dioxide enters the leaf and oxygen is released to the outer atmosphere.							
			·						
	3.	Optii	mum temperature for photosynthesi	S.					
	4.	Process of releasing energy by breaking down food for life activities.							

	5.	Process of breathing in.	
	6.	Process of breathing out.	
	7.	Time during which stomata are open.	
	8.	Examples of fruits with lenticels on them.	
	9.	Structures found in the leaves through which carbon dioxide is released into the atmosphere.	
	10.	Gas which turns limewater milky.	
[E]	Look 1.	at the given images and answer the questions that follow:	[78]
	a. Ans.	What is the aim of the given activity?	
	b. Ans.	What does the green portion of the leaf indicate?	
	c. Ans.	Why does the green portion of the leaf appear green?	
	2.		
	a. Ans.	Identify the activity for which the given below set-up is required.	
	b. Ans.	What is the aim of the given experiment?	

_	
V	hat does the bubbles emerging from the <i>Hydrilla</i> plant indicate?
Λ	hat is the location of stomata?
lc	dentify guard cells and stomatal opening in the given image.
Ν	ame the gas that is taken in through the stomata.
E	xplain the working of stomata.
N	ame the biochemical process being carried out.

	n part of the plant carries out the process?
Name	e the pigment present in green plants that help in carrying out the process?
Name	e the plant cell organelle that stores the pigment.
Enlis	t the reactants required to carry out process.
Ment	ion the reason of experiment depicted in the below figure.
 What	is the difference observed in the limewater in the set-up A and B? why?
Name	e the gas evolved in Set-up B.
 State	the conditions necessary for the seeds to germinate.

e. Ans.	what other liquid other than limewater can be used to qualify the test?	
Very	short answer type questions:	3]
1. Ans.	What is photosynthesis?	
2. Ans.	Where does the process of photosynthesis take place?	
3. Ans.	What are the by-products of photosynthesis?	
4.	List some factors that affect photosynthesis.	
Ans.		
5. Ans.	What is stoma?	

— W	hat is the role of chlorophyll in photosynthesis?	
W	hich tissue helps in conduction of food and water in plants?	
W	rite the equation representing aerobic and anaerobic respiration.	
	ewar typo guastians:	
	swer type questions: hat is the significance of photosynthesis?	
	hat is respiration? Name the two types of respiration.	
	hat is respiration? Name the two types of respiration.	
	hat is respiration? Name the two types of respiration.	

[G]

3.	How can you prove that respiration and photosynthesis are opposite in terms of mechanism?	
Ans-		
AI 15-		
Long	answer type questions:	
1.	With the help of a chemical reaction, explain the process of photosynthesis.	
Ans-	and the same of th	
7 (113		
2.	How will you test the presence of chlorophyll in the leaves of the plant?	
Ans-		

Explain the \	working of stomat	a with a suitab	le diagram.	
Describe the	transportation of	food and water	in plants.	

Differentiate between the following:						
1.	Aerobic respiration and anaerobic respiration					
2.	Respiration and breathing					
3.	Photosynthesis and respiration					

<u>Chapter - 5</u> [Excretory System]

Check Point:

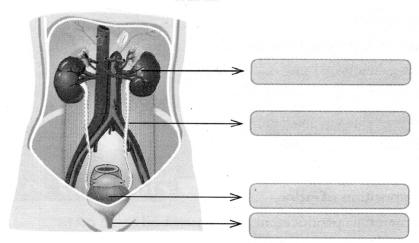
[A]	Fill i	n the b	olanks:			[9	90]
	1.			is an example	of ni	trogenous waste.	
	2.			converts the to	xic a	ammonia produced by the body cells int	0
		less	toxic urea.				
	3.	In th	ne vertical section,	, the kidney shows an	inn	er lighter zone called	
	4.				of th	ne body by lungs through the nostrils.	
	5.			is a machine th	nat d	can be used for a person with none of th	е
		kidn	eys functioning pr	roperly.			
Keyw	ords:					[9	90]
ARF:							
Excre	etion:						
End s	stage re	enal di	sease:				
Kidne	ey:						
UTI:							
Exerc						[01.04]	
		inlo Ch	noice Questions:			[91-94])11
[A]	(i)	•	ch of the following	ı may cause HT12		į:	91]
	(1)	(a)	E.coli		b)	Chlamydia	
		(c)	Mycoplasma		d)	All of these	
	(ii)		5 .	۱ is an example of nitr و			
	(,	(a)	Ammonia	·	b)	Urea	
		(c)	Uric Acid		d)	All of these	
	(iii)			` is not an excretory o ا	•		
	` ,	(a)	Kidneys	_	b)	Skin	
		(c)	Uterus		d)	Urethra	
	(iv)			is not an accessory e	•		
	()	(a)	Liver	_	b)	Urethra	
		(c)	Lenticels		d)	Kidney	
	(v)	Whi	ch of the following	is a chief excretory o	rgar	n?	
	. ,	(a)	Ureter	_	b)	Urinary bladder	
		(c)	Urethra	(d)	Kidney	
	(vi)	Duri	ing the secretion s	tage, which substanc	e is s	secreted into the filtrate in exchange of	
	•		sorbed sodium?			·	
		(a)	Urea	(b)	Potassium	
		(c)	Calcium	(d)	Phosphorous	

	(vii)	Kidn	ey stone refers to a so	lid deposit that occu	urs in the following syste	em.			
		(a)	Urinary	(b)	Digestive				
		(c)	Reproductive	(d)	Respiratory				
[B]	Fill ir	n the b	lanks:			[92]			
	1.	Kidneys are enclosed in transparent membrane called							
	2.	A cir	cular	muscle gua	ards the opening of the l	oladder into the			
		uretl							
	3.		is	the basic functiona	al unit of the kidney.				
	4.	The	Bowman's capsule and	l glomerulus togethe	er form	body.			
	5.	Yello	ow colour of urine is du	ie the pressure of th	ne pigment	-			
[C]	Give	one wo	ord for the following:			[92]			
	1.	Proc	ess of removing waste	form the body					
	2.	The	structure present in ki	dney that act as filt	ters				
	3.	A tra	ansparent membrane e	enclosing each kidne	ey				
	4.	The	glands present in skin						
	5.	A so	lid deposit that forms i	n the urinary syste	m.				
[D]	Write	te True or False for the following sentences:							
	1.	Оху							
	2.	Formation of urine takes place in the kidney in three stages.							
	3.	The most common treatment for urinary tract infections is antibiotics							
	4.	The	stones.						
	5.	An a	 rtificial kidney is calle	d dialyser					
[E]	Obsei	rve the	e diagrams given below	and answer the qu	estions that follow:	[92]			
	1.								
	a. Ans.		tify which organ is thi						
	b. Ans.	Wha	t is its function in the	human body?					

i. Cortex	
ii. Medulla	
iii. Renal artery	
iv. Renal vein	
v. Ureter	

2.

Ans.



a.	Label	the	parts.

h	Which system	ia balma	00000000	in +h-	06010	fiarmo
b.	windin system	is beind	observed	m me	above	пашел
~ .	viiion o jotom	10 001119			abovo	1190101

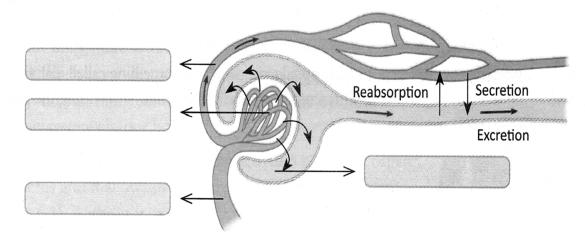
Ans.			

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d. Rahul doesn't drink water regularly. Which part of the excretory system will be affected? Suggest a remedy.

Ans.

3.



- a. Label the parts1, 2, 3 and 4.
- b. Name the organelle.

Ans. _____

Ans.		
d. Ans.	State its location and function.	
Very :	short type questions:	[93]
1. Ans.	What are excretory organs? Give examples.	
2.	What are hile pigments? Where are they produced?	
Ans.	What are bile pigments? Where are they produced?	
3.	Define the following:	
a.	Ureters :	
b.	Urinary bladder :	
C.	Urethra :	

	4. Ans.	What is urinary incontinence?	
	7 (113)		
	5. Ans.	What do you understand by urinary tract infection?	
[G]	Short	answer type questions:	[94]
	1.	What is excretion? Why is it important?	
	Ans.		
	2.	Describe the structure of the kidney with a well-labelled diagram.	
	Ans.		

What do you understand by the term kidney failure?	
What do you understand by the term kidney failure?	
What do you understand by the term kidney failure?	
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What do you understand by the term kidney failure?	
What do you understand by the term kidney failure?	
What do you understand by the term kidney failure?	
nswer type questions:	What is a dialyser? How and why is it used?
nswer type questions:	
What is urinary system? Describe the system with a well-labelled diagram.	nswer type questions:
	What is urinary system? Describe the system with a well-labelled diagram.

[G]

2. Ans.	Describe the formation and composition of urine.
AHS.	
3.	Explain the different excretory materials produced in the human body.
Ans.	

What do you mean by ar	tificial kidney? Describe	its function.	
Write a short note on:	a. ARF	b. ESRD	