SECOND TERMINAL EXAMINATION 2019-20 BIOLOGY

STD: VII

TIME: 2 HOURS MAX.MARKS:80

Question 1

a.	Nai	me the following					
	1.	Structural and functional unit of kidney.	(5)				
	2.	Energy currency of the cell.					
	3.	A plant with a variegated leaf.					
	4.	The phylum that includes animals with jointed foot					
	5.	The organ that produces urea					
		results and the same of the sa					
	Def	Define the fell					
b.	Define the following terms						
	1.	Excretion	(5)				
	2.	Photosynthesis					
	3.	Osmoregulation					
	4.	Destarching					
	5.	Dialysis					
	٥.	Dialysis					
c.	Write	e down the functions of the following	(5)				
			(5)				
	1.	Chlorophyll					
	2.	Kidney					
	3.	Phloem					
	4.	Tentacles					
	5.	Stomata					
d.	Give	one point of difference between the following pairs on the basis of what	a airen in				
u.		Give one point of difference between the following pairs on the basis of what is the brackets					
	the bi	ackets	(5)				
	1.	Photosynthesis and respiration (End products)					
	2.	Arthropoda and Mollusca (Body covering)					
	3.	Liver and Lungs (Products excreted)					
	4.	Urinary bladder and Urethra (Function)					
	5.	Invertebrates and Vertebrates (Definition)					
. e.	Given	Given below are sets of four terms. Out of which one do not belong to the group to which					
	the others belong. Identify the odd one and name the category to which the other						
	the ou	nois boiong. Identify the odd one and	(4)				
	1.	Hydra, Amoeba, Tape worm, Frog					
	2.	Camel, Lion, Bat, Turtles					
	~.	Cutatory David Touri Touri					

Urea, Uric acid, Ammonia, Bile

Skin, Liver, Lungs, Kidney

3.

4.

- Write the exact locations of each of the following f.
 - Kidney 1.
 - Sweat gland 2.
 - Chlorophyll 3.
 - Guard cells 4.
 - Mesophyll cells 5.
- Match the items in column A with that given in column B g.

Column A			Column B
	1.	Parasite	Earth worm
	2.	Ethanol	Liver
	3.	Nephridia	Kidney
	4.	Birds	Aerobic respiration
	5.	Lizard	Hollow bones
			Tape worm
			Anaerobic respirati
			Chordate

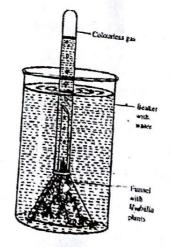
Given below in the box are a set of terms which can be matched into seven particles have been done for you as an example. Write out the remainder h. matching pairs made by you as 1 to 6. eg :Sponge - Porifera

> Cat, Sea anemone, Annelid, Pisces, Mammalia, Earthworm, Crab, Coelenterates, Rohu, Arthropods, Mollusca, Sponge, Porifera, Aves, Amphibian, Kiwi

SECTION - B(40 marks)

Question 2

Given below is an experimental set up to demonstrate a physiological process. carefully and answer the questions that follow.



- 1. Name the physiological process
- 2. What is the aim of the experiment?
- 3. Represent the above process in the form of an equation.
- 4. What are the raw materials required for this process and mention their sources. 5. What is the significance of this process?

- Photosynthesis do not occur at a temperature above 40^oC. 1.
- Excretion is a necessary process. 2.
- Aerobic respiration yield more energy. 3. 4.
- Photosynthesis is the reverse process of respiration. 5.
- It is good to sleep under a tree during a hot mid day.

Ouestion 3

Given below is a picture of an animal. Study it carefully and answer the questions that follow.



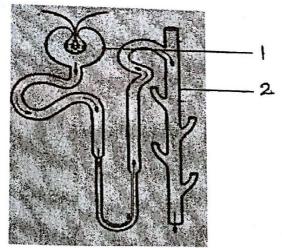
- Identify the kingdom to which the above animal belongs. 1. 2.
- Give any two characteristics of the above phylum.
- Is it a vertebrate or an invertebrate? Give reason. 3.
- Explain the following terms.
 - Heterotrophs (i)
 - (ii) Locomotion

b. (5)1.

- Draw a neat labelled diagram of stomata which is open.
- Mention any two ways by which a plant is adapted to carry out photosynthesis. 2. 3.
- Too much light affects photosynthesis. Explain.

Question 4

Given below is the diagram of a part associated with human excretory system. Study it carefully and answer the questions that follow. (5)



- 1. Label the parts numbered 1 and 2.
- 2. How is urine produced in human beings?
- 3. Name the following
 - (i) Blood vessel which carry blood to the kidney.
 - (ii) Blood vessel which carry blood away from kidney.
- 4. Draw a well labelled diagram of a human excretory system.

1. Kidney stone	17.00
1. Kidney stone 2. Autotrophs 3. Diabetes Mellitus 4. Phylum coelentrata 5. Urinary tract infection.	
Question 5	
a.	
 Define respiration. Write any two points of differences between aerobic respiration and anaerobic respiration. Write the word equations for Aerobic respiration Anaerobic respiration. The following paragraph is the steps to conduct starch test in green leaves. complete the following paragraph by using suitable word or words. To test a leaf for starch, pluck a leaf which has been growing in bright sunlight leaf in a beaker with (i)—————— for 2-3 minutes to kill the cells and boiling (iii)—————. Take the leaf out of the beaker and place it inside a tube of the leaf and add iodine solution. If starch is present a (v)————————————————————————————————————	(! - P de: