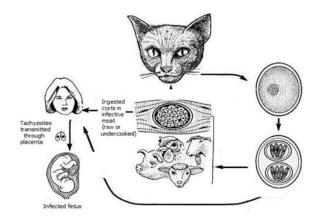
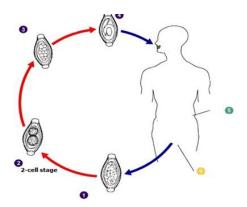
- Describe and draw the cyst of Balantidium coli
- Leishmania is able to exist in two forms, Write 3 differences between them
- Write the symptoms of Entameoba histolytica infection
- Mention the symptoms of whipworm infection and how can be controlled?
- Complete the pointed numbers of life cycle, with showing:
- Diagnostic stag , Infective stage , transmission in animal



- Draw the differences between cyst and trophozoite of Balantidium coli
- Write the symptoms of the followings:
 - 1. Balantidium coli infection
 - 2. Final stage of Trypanosoma brucei infection
- All cestodes are hermaphrodite that means
- If the infection with Wuchereria bancrofti is left untreated, ...
- Mention the symptoms of whipworm infection and how can be controlled?
- Classify helminthes.
- Leishmania is able to exist in two forms Write 3 differences between them
- The symptoms of chancre stage are
- Describe the cyst of Giardia lamblia
- The bloodstream slender trypomastigote has
- Adult worm of Cestodes composed of
- Write about the following:
 - 1. Treatment of Filariasis
 - 2. Control of whipworm
- What are the symptoms of kala azar
- Describe the egg of Ascaris lumbricoides
- Complete the pointed numbers of life cycle, with showing:

• Diagnostic stag , Infective stage , Disease cause



- At what stage or form is
 - 1- *Trypanosomes* present in the blood?
 - 2- Balantidium coli infects human?
 - 3- Leishmania exists in the vector?
 - 4- Entameoba histolytica exists in the host
 - 5- Giardia lamblia infects human
- What are the differences between:
 - 1. Final host & Paratenic host
 - 2. Homospecific association & Heterospecific association
 - 3. Mortality and Morbidity
- What happen at the final stage of African trypanosomiasis? What are the symptoms shown in this stage?
- What does Kala azar mean? Write 3 symptoms of it.
- How is these diseases transmitted?

Sleeping sickness - Leishmaniasis

What are the causes of the followings? mention the infective stage of them:

- 1. Guinea worm disease
- 2. Filariasis

Describe the adult worm of Cestodes.

a. What are the symptoms of heavy infection with T. saginata

Q3. Write briefly about:

- 1. Treatment of guinea worm disease.
- 2. Risk factors of hookworm infections
- 3. Differences between the male and female of whipworm

Pinworm diagnosis Complete the pointed numbers of life cycle, with showing:	
 Parasite scientific name Diagnostic stage 	
3. Infectious stage	
 Choose the correct answer: is number of hosts infected divided by the number of hos 	ts examined at a point in time.
Morbidity - Incidence - Prevalence	- Mortality
• is more problematic for pregnant women and people who h	ave weakened immune systems.
Trichuriasis - Ascariasis - Toxoplasmosis	- Giardiasis
• The infective stage of Ascaris lumbricoides is	
Unembryonated	eggs passed in feces - Egg embryonated
in soil –	sporulated oocyst - cyst
• is the way two	organisms of different species exist in a
relationship in which	each organism benefits.
Commensalism - Adult in lumen of cecum of g	Mutualism - Predation
- Phoresis	
Each cyst of produces two trophozoites upon excystation	n.
Giardia lamblia – Balantidium coli – Trypanosoma b	rucei – Trichuris trichiura
• The cysts of are killed by heat and by freezing temperatures.	
 Entameoba - Balantidium - Giardia - Trypanosoma To control the whole family should be treated 	
• Filariasis - Enterobiasis - trichuriasis - toxopla	asmosis
• The first sign of infection with is a sore at the bite site. Trypanosoma - Leishmania - Toxoplasma - Entameobo	a
• In the parasites stay in the host but do not grow and develop).
Definitive Host - Mechanical vector - Incidental Host - • The Intermediate host of <i>Taenia saginata</i> is	Biological vector
• mosquito - cattle - cat - man	
• consist of long thin worms called roundworms.	
Nematoda - Cestodes - Flatworms - Flukes	
Infection with whipworm causes a disease called Kala azar Baghdad hoil trichuriasis dysentary	
Kala azar - Baghdad boil - trichuriasis - dysentery	

•	The number of hosts infected divided by the number of hosts examined at a point in time is called Morbidity - Incidence - Mortality - Prevalence
•	Which of the following about <i>Enterobius vermicularis</i> is correct?
_	Rectal prolapse is possible in severe cases - Intermediate host is cattle
	Diagnosed by finding the adult worm or egg in the perianal area - They are hermaphrodite
•	Kala azar means
	enlargement of spleen - black fever - Irregular fever for long period - swelling of the lymphatics.
•	Whipworm infection is diagnosed by
	detection of a lemon shaped egg in stool examination - finding the adult worm or egg in the perianal area
	- recovery of segment or scolex - live lice or empty egg in stool examination
•	To control infection, cattle should not be allowed to graze on ground contaminated by human feces.
	toxoplasmosis - filariasis - dysentery - beef tapeworm
•	Each cyst of produces two trophozoites upon excystation.
	Giardia lamblia - Balantidium coli - Trypanosoma brucei - Trichuris trichiura
•	Which of the followings are incorrect about Kala azar?
	The amastigotes are localized and multiply in brain - Causes swelling of the liver and spleen - leaves a
	disfiguring scar - Causes cardiac dysfunction
1.	In one organism benefits while the other organism is harmed.
	Phoresis - Commensalism - Mutualism - Parasitism
•	To control the whole family should be treated
•	Filariasis - Enterobiasis - trichuriasis - toxoplasmosis
•	The first sign of infection with is a sore at the bite site.
	1. Trypanosoma - Leishmania - Toxoplasma - Entameoba
•	In the parasites stay in the host but do not grow and develop. 1. Definitive Host - Machanical vector - Incidental Host - Rielegies vector
•	1. Definitive Host - Mechanical vector - Incidental Host - Biological vector The Intermediate host of <i>Taenia saginata</i> is
•	mosquito - cattle - cat - man
•	consist of long thin worms called roundworms.
	Nematoda - Cestodes - Flatworms - Flukes
•	Infection with whipworm causes a disease called Kala azar - Baghdad boil - trichuriasis - dysentery
•	The number of hosts infected divided by the number of hosts examined at a point in time is called
	Morbidity - Incidence - Mortality - Prevalence
•	Which of the following about <i>Enterobius vermicularis</i> is correct?
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•	Whipworm infection is diagnosed by
	detection of a lemon shaped egg in stool examination - finding the adult worm or egg in the perianal area
	- recovery of segment or scolex - live lice or empty egg in stool examination
Draw	nd label the bloodstream trypomastigote.
Q3. A.	The clinical signs of human giardiasis depend on various factors such as
В	Draw and label the trophozoites and cyst of Balantidium coli.
V	rite 3 differences between Amastigote and Promastigote :
1.	What Happens at final stage of sleeping sickness.
2.	Write about toxoplasmosis transmission in human
3.	Giardia lamblia has two morphological stages, describe the difference between.
•	How is the following diagnosed (only 2)?
	1. Trichuriasis
	2. Sleeping sickness
	3. Pinworm infection
•	Write the symptoms of the following:
	1. Acute infection with <i>Toxoplasma gondii</i>
	2. African trypanosomiasis (first stage)
•	How does hookworm infection transmit ?
•	How can guinea worm disease be diagnosed ?
•	What are the symptoms of :
	a. Beef tapeworm infection
	b. Filariasis (only 3)
•	What is the infective stage of :
	a. <i>Necator americanus</i> b. Whipworm c. Pinworm
•	Classify helminthes.