Q1/ What are the differences between Taenia saginata and Taenia solium according to:

- 1. Scolex
- 2. Gravid segment
- 3. Ovary lobes
- 4. Cysticercus

With drawing?

Q2/ With drawing show the steps of life cycle of Diphyllobothrium latum?

Q3/ Identify if each of the following statements are true or false. Mark as T, if they are true and F if they false (10 marks)

- 1. The common genital pore in Pseudophyllidea is lateral.
- 2. Symptoms of diphyllobothriasis are generally mild, and can include diarrhea, abdominal pain, vomiting, weight loss, fatigue, constipation and discomfort.
- 3. The tapeworms are hermaphrodites.
- 4. *Echinococcus* adult worm develop from protoscolices.
- 5. Carrion birds are not mechanical vectors of *Echinococcus* egg.
- 6. Serology tests (such as indirect hemagglutination, ELISA, immunoblots or latex agglutination) that use antigens specific for *Echinococcus granulosus* are used to verify the imaging results.
- 7. The intermediate host for Hymenolepis nana is cattle.
- 8. *Hymenolepis nana*, also known as rat tapeworm.
- 9. In *Hymenolepis nana*, when the eggs have been fertilized in the worm, the segments are referred to as mature segment.
- 10. Diagnosis for hymenolepiasis is done by examining stool for eggs.

Q4/ Choose the letter of ONE correct answer: 1. The larvae of Eucestoda have attachment hooks.	(5 marks)
a) 2	c) 6
b) 4	d) 8
2. In small number of cases of diphyllobothriasis leads to sever vitamin deficiency.	
a) B1	c) B6
b) B2	d) B12
3. Human echinococcosis is caused by the:	
a) adult stages	c) adult and larval stages
b) larval stages	d) none of above
4. Alveolar echinococcosis is caused by:	
a) Echinococcus granulosus	c) Echinococcus oligarthrus
b) Echinococcus multilocularis	d) Echinococcus vogeli
5. Species of <i>Echinococcus</i> are transmitted to by mean	s of eating infected cyct-containing organs.
a) Intermediate host	c) a and b
b) definitive hosts	d) none of above
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