

※ 考生請注意：本試題不可使用計算機。 請於答案卷(卡)作答，於本試題紙上作答者，不予計分。

**一、填充題** (50% in total, 5 points each) You may answer in Chinese.

Parasite Name	Name of hatched embryo	Name of infective stage
<i>Paragonimus westermani</i>	A	B
<i>Oncocerca volvulus</i>	C	D
<i>Echinococcus multilocularis</i>	E	F
<i>Schistosoma japonicum</i>	G	H
<i>Diphyllobothrium latum</i>	I	J

**二、問答題:** (50% in total) You may answer in Chinese.

1. From pathogen, infection route, and pathology points of view, write down anything you know about cysticercosis. (15 points)
2. What is the life cycle of *Trypanosoma cruzi*? Describe the pathology caused by American trypanosomiasis. (15 points)
3. Design experiments: You are lucky to find a protein from parasite that causes host cells dead. This is only happened when the protein is expressed inside the host at specific cell cycle. Design experiments to find out how the protein interacts with the host to cause cell die and to find the stage of the host that is affected. (20 points)