UNIVERSITY OF SWAZILAND Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH FINAL EXAMINATION PAPER 2010

TITLE OF PAPER

: MEAT PARASITOLOGY

COURSE CODE

: EHS 208

DURATION

2HOURS

MARKS

100

INSTRUCTIONS

ANSWER ONLY FOUR QUESTIONS

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QUESTION ONE IS COMPULSORY

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EACH QUESTION CARRIES 25 MARKS.

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WRITE NEATLY

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BEGIN EACH QUESTION ON A

SEPARATE SHEET OF PAPER

DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR

- Human fascioliasis is due to;
 A. Eating a liver infested with liver flukes
 B. Eating uncooked green leafy salads or grass infested with liver flukes.
 C. Eating uncooked green leafy salads infested with liver fluke cercaria or larvae.
 D. Eating uncooked green leafy salads infested with liver fluke eggs
 E. Eating a liver infested with cercaria or larvae.
- 8. Which of these tapeworms may infest rabbits or hares;
 - A. Hypoderma diana
 - B. Taenia hydatigena
 - C. Taenia multiceps
 - D. Taenia serialis
 - E. Taenia hydatigena
- 9. Which larval stage in Diphylobothrium latum is infective in human;
 - A. Coracidium larvae
 - B. Cysticercus larvae
 - C. Copepods larvae
 - D. Procercoid larvae
 - E. Plerocercoid larvae
- 10. Coccidiosis in poultry is caused by which parasite;
 - A. Coccidia avium
 - B. Eimeria scabra
 - C. Eimeria tenella
 - D. Eimeria stiedae
 - E. Eimeria zurnii
- 11. Toxoplasmosis in human is caused by;
 - A. Toxoplasma gondii
 - B. Eimeria scabra
 - C. Eimeria perforans
 - D. Eimeria stiedae
 - E. Eimeria zurnii
- 12. Which one of these diseases result in haemoglobinuria in cattle;
 - A. Coccidiosis
 - B. Heart water
 - C. Babesiasis
 - D. Anaplasmosis
 - E. Toxoplasmosis

- 19. Which one of these statements is **not correct** about Anaplasmosis in cattle?
 - A. It is mainly a disease of cattle but may also attack sheep and goats.
 - B. The main lesion is the distension of the gall bladder
 - C. The vector of importance is Boophilus species
 - D. It is sometimes known as the Black lung disease
 - E. The protozoa will parasitize red blood cells but does not destroy, so there is no haemoglobinuria
- 20. Which one of these statements is **not correct** about Warble flies?
 - A. Large, two winged insects with hairy body
 - B. The larvae feed by penetrating the skin of animals and suck blood.
 - C. The larvae may be found on the wall of the oesophagus and subcutaneous tissue of the back
 - D. The larvae penetrate the mouth down the pharynx and then pass to the stomach
 - E. During feeding, the larvae enlarge the wound and also develop a foul-smelling necrotic area.
- 21. Myiasis is a condition that is caused by:
 - A. When warbles flies bore through the hide in cattle
 - B. When larvae cause a lot of damage in their movement on the flesh
 - C. When larvae is deposited on a wound by blowflies
 - D. When hatched larvae penetrate the skin and wonder in the body
 - E. All of the statements are correct
- 22. Toxoplasmosis in human is transmitted by;
 - A. food contaminated by pigs excrement
 - B. food contaminated by domestic cats excrement
 - C. eating pork or mutton with tissue cysts of the protozoa
 - D. blood sucking ticks
 - E. B and C
- 23. Which statement is **not true** in relation to Toxoplasmosis?
 - A. Transplacental infection is common
 - B. Children are particularly at risk of infection
 - C. Milk of infected animals may contain the protozoa
 - D. Lesions are seen on the liver surface as irregular shaped whitish spots
 - E. In sheep, there is metritis, placentitis, and necrotic lesions in many organs of the fetus
- 24. Which statement is **not true** in relation to Trichinellosis?
 - A. Trichinellosis is transmitted to human by eating raw or undercooked beef infected with the larvae of Trichinella spiralis
 - B. The worms after mating in the small intestines, the female deposits eggs in the lymph space.

d)	Using appropriate examples, explain the effects caused by parasite animals.	s on food (5)	
Ques	tion 4	[25 Marks]	
a.b.c.d.	During your ante-mortem inspection, what symptoms or signs may suspect a case of Heart water disease? Since both parasites causing red water fever and gall-sickness attaccells, how can you differentiate each disease? How do human acquire Toxoplasmosis diseases? Which organs of pig's carcase are likely to harbour cysticercus cells.	(6) ck the red bloo (10) (4)	d
Ques	tion 5		
a) b)	Explain the life cycle of 'beef tapeworm' How would you control the human infestation by 'beef tapeworm'	(10) ? (5)	
c) d)	How would you control the transmission of hydatid cysts in human Discus the methods that can be adopted for the control of Trichinel	llosis disease. (5)	
		[25 Marks]	