題號:334

國立臺灣大學99學年度碩士班招生考試試題

科目:獸醫微生物學(B)

題號: 334 共 3 頁之第 / 頁

※ 注意:請於試卷上依序作答,並應註明作答之大題及其題號。

		一日 一八	7	
細	細菌學的部份			
1.				
2.	2. 請填入下列疾病的病原學名及細菌革蘭氏染色特性。(每格二分)			
	a. 豬進行性萎縮性鼻炎(Swine progressive atrophic rhinitis)			
	() (minitis)		
	b. 貓抓病(Cat scratch disease) () (,		
	c. 魚類細菌性腎病(Bacterial kidney disease))		
	() ()		
	d. 炭疽病(Anthrax) () ()		
	e. 鸚鵡熱(Psittacosis) () ()		
病	病毒學的部份			
1.	11112000000000000000000000000000000000			
2.	高级 () () () () () () () () () (
	a. 藍舌病(Blue tongue disease) ((3.14)3)		
	b. 日本腦炎(<mark>Jap</mark> anese encephalitis) (
	c. 蝦桃拉病 <mark>(T</mark> aura syndrome) (
	d. 馬立克病 <mark>(</mark> Marek's disease)			
	e. 鴨病毒性腸炎(Duck virus enteritis) (
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	77.00			
<u>l.</u>	<u>l.</u> <u> </u>			
簡答題 (歡迎以圖示法作答)				
1.	. 請說明藥物造成 Type I hypersensitivity 之 mechanism。 (5 分)			
2.	17 1897 6			
	2. 請說明 Antibody diversity 形成之 mechanism。 (5	(分)		
3.	3. 請說明 Thymocytes 如何在 thymus 進行 positive 8	h nogative selection (a. (3.)		
	A STATE CHANGE OF THE POSITIVE OF	negative selection。 (3分)		
4.	請 <u>舉例</u> 說明 Cytokines 之 redundancy 及 antagonism 的特性。 (2 分)			
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5.	請說明造成 Autoimmunity 的 mechanisms。 (5 分)			
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õ.	. 何謂 Cross priming?其重要性爲何? (5 分)			

II. 寄生蟲學 25 分

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是非題 (正確請寫 O,錯誤請寫 X)(答錯扣 1.5 分,沒答扣 1 分)

- Sandflies transmit Leishmania spp. hemoflagellates of man and dog.
- 2. Demodex spp. are tiny, wormlike ticks with short, stubby legs that live in the hair follicles and sebaceous glands of mammals.
- 3. Giardia parasitizes the large intestine where these organisms attach to the mucosal cells by their sucking discs.
- 4. Cryptosporidium and Toxoplasma gondii are important opportunistic pathogens in immunodeficiency individuals.
- 5. The definitive and intermediate hosts of Toxoplasma gondii are all other warm-blooded animals and members of the family Felidae respectively.
- Babesia spp. are apicomplexan parasites of the erythrocytes
- 7. Cysicercoids of Dipylidium caninum develop in fleas and biting lice, and the dog acquires this trematode parasite while nipping its insects.
- 8. Rhabditis strongyloides is a free-living inhabitant of decaying organic matter but occasionally produces a puritic, hyperemic dermatitis.
- 9. Type II or winter ostertagiosis usually occurs in pastured young cattle, the worms maturing without first passing through a developmental arrest.
- 10. Adult Dictyocaulus live in the lumen of the bronchial tree, where they cause chronic bronchitis.
- 11. Creeping eruption is a linear, tortuous, erythematous, and intensely pruritic eruption of the skin usually caused by migration of a nematode larva.
- 12. Metastrongylus sp. eggs do not hatch or develop into infective larvae unless they are ingested by an earthworm.
- 13. Neonatal infection via the mammary glands is an important route of infection of Toxocara cati in kittens.
- 14. The intermediates hosts of Dirofilaria immitis are ticks.

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15. The tiny adults of *Trichinella spiralis* are found embedded in the muscle of swine, carnivorans, and man.

- 16. The Acanthocephala is a highly specialized parasites of the vertebrate respiratory tract.
- 17. Adult F. hepatica live in the bile ducts of ruminant and other mammalian hosts.
- 18. The slender male *Schistosoma* spp. lie in the gynecophoric canal of the somewhat stouter female.
- 19. Metacercaria is developed from cercaria.
- 20. Hydatid cysts are metacestodes of Echinococcus granulosus.
- 21. Eggs of eucestodes contain fully developed oncospheres when they are passed, but they are not immediately infective for the intermediate host.
- 22. A tape worm is a strobila of progressively maturing, independent, reproductive proglottis.
- 23. Eimeria spp. are gastrointestinal parasites of a wide range of vertebrate hosts.
- 24. Balantidium coli, a normal element of the intestinal fauna of the pig, is very large and covered with cilia.
- 25. Adult *Strongyloides ransomi* lies deeply embedded in the mucous membrane of the swine large intestine.