Chittagong Veterinary and Animal Sciences University Faculty of Veterinary Medicine Department of Pathology and Parasitology July - DecemberSemester Final Examination-2017 MS in Parasitology

Course Title: Zoonotic Parasites (Theory)
Course Code: ZPR-602

Full marks-40, Full time: 2 hour

Answer any Five (5) the following questions:

1.	a) Define and classify zoonosis. Enlist the zoon tic parasites of wild animals.	4.0
41	b) Write down the life cycle, pathogenesis and athology of Trichinellaspiralis.	4.0
12		
2.	a) Briefly describe the life cycle and pathogenesis Fasciolopsisbuski in pig.	4.0
	b) Write down the differences between Dirofilariaimmitis and Angiostrongylus	
20 20	vasorum. 4.0	
3.	a) Briefly describe the transmission pattern and life cycle Leishmania spp.	4.0
es	b) Write short note on Giant kidney worm in dog.	4.0
3		
4.	a) Briefly describe the morphology and life cycle of smallest zoonotic cestode in dog.	4.0
	b) Write down a short note on "Immune response against schistosomiasis."	4.0
18 04 28		
5.	a) Briefly describe the morphology and life cycle of Echinostomarevolutum in duck.	4.0
50	b) Write down the difference between tryphozoite and cyst of Balantidium coli.	4.0
6.	Write down the scientific name of the following parasites (any two): 4.0x	2=8.0
\$2 \$2	a) Spirocercalupi infection	
	b) Bovine trypanosomiosis	
2 7 2	c) Cercarial dermatitis	

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Chittagong Veterinary and Animal Sciences University Faculty of Veterinary Medicine Department of Pathology and Parasitology July - DecemberSemester Final Examination-2017 MS in Parasitology

Course Title: Entomology (Theory) Course Code: EPR -602

Full marks-40, Full time: 2 hour

Answer any five (5) the following questions:

1.	a) Enumerate the morphological features of arthopod with reproductive system.	4.0
	b) Briefly describe the harmful effect of arthropod on hosts.	4.0
2.	- a 1 1 1 1 Distinguished myringic from strike	4.0
F0 (e)	b) Write down the feeding mechanism and pathogenic significance of Culex spp.	4.0
3.	a) Write down the morphological difference of the followings (any two):	2x2=4.0
22	i) Mallophaga and Anoplura ii) Burrowing and non-burrowing mite iii) Tick and flea	
14	b) Write down the Life cycle and pathogenesis of phthiraptera.	4.0
4.	a) Write down the life cycle and vector importance of <i>Ixodesricinus</i>.b) Write down the preventive measures to control tick.	4.0
5.	 a) Enlisted the lice found in domestic mamrials. Briefly describe the morphology andlife cycle of <i>Heterodoxus</i> spp. b) Write down the pathogenesis and pathology of demodectic mange of dog. 	4.0
6.	Write short notes on (any two) a) Red mite of poultry b) Tick paralysis	2=8.0
	c) Canine flea	

Chittagong Veterinary and An' mal Sciences University

Faculty of Veterinary Medicine

Department of Pathology and Parasitology

MS in Parasitology (July-December semester) Final Examination' 2017

Course Title: Parasitic Ecology and Epidemiology

Course code: PEE-602

Total Marks: 40

Time: 2 hours

Answer any four (4) questions from the following

1(a) Define biotic and abiotic factors with example. Briefly describe the effect of these two factors the infection biology of parasite.	on 6.0
(b) 'Climate change may promotes the occurrence of parasitic diseases' justify the statement.	4.0
2 (a) Mention the intervention strategies that were imp emented for GWEP (Guinea Worm Eradication Programme) in Africa.	6.0
(b) Explain the role of socio-cultural determinants on parasitic infection.	4.0
3(a) Design the systemic approach for outbreak investigation.	6.0
(b) What do you mean by epidemic, endemic and pandemic outbreak? Give example	4.0
4 (a) Explain the Density dependent control of parasite with example.	4.0
(b) What measures will you take to reduce soil transmitted nematode infection from a	
community.	6.0
5 (a) Describe the factors that contribute in long time survival of ascarid eggs in the environment.	2.0
(b) Write short notes on (any two)	8.0
i. Hypobiosis iii. Host-parasite interaction iii. Over dispersion phenomenon	

Chittagong Veterinary and Animal Sciences University Faculty of Veterinary Medicine

Department of Pathology and Parasitology
MS in Parasitology July-December 2017 semester Final Examination
Subject: Molecular Parasitology, Course code: MPR-601

Time: 2 Hours, Mark: 40

Answer any FOUR questions:

1.	a) Write down the scopes of molecular parasitology in veterinary science	5
15)	b) Write short note on drug resistance in parasites? Give example.	5
2.	a) What is nucleic acid and nucleotide? What is gene and genome?	5
	b) What is central dogma? Define gene expression and regulation.	5
3.	a) Define protein. Discuss various structures of a protein and label it.	5
340	b) What is protein sorting, describe with example.	5
4.	a) What is genetic code and mRNA splicing?	5
	b) Briefly describe replication and transcription?	5
5.	a) What type of antigenic variation occurs in trypanosomes? Explain.	5
	b) What type of antigenic variation occurs in Leismania. Briefly describe it.	. 5
6.	Write short note on (any two):-	2=10
	a) Polymerase chain reaction	
	b) SDS-PAGE	
	c) Protein tertiary structure	
	d) Real time PCR	

July - December Semester Linal Examination' 2017

Master of Science in Parasitology

Subject: Protezoology

Course code: PPR-602. Credit: 2 (theory)

Department of Pathole , and Parasitology

Faculty of Veteri 1ary Medicine

Chittagong Veterinary and Animal Sciences University

Tin	ne: Two hours Total Marks	: 4
Ans	swer the following questions	i k
1.	With examples describe the different locomotion and reproduction processes of protozoa.	6
2.	With hosts name four cysts forming (extra-in, stine location) and four abortion causing protozoa from different genera.	2
3.	Write down the morphologies of the following structures carried protozoa- a) Ventral disc b) Peristome c) Pseudopodium d) Undulating membrane	4
4	Name the four protozoa responsible for Cocció osis in chickens. How can you prevent the protozoa in a chicken farm?	5
5.	Write down the names of the protozoa which show following phenomena. Describe the processes as well. a) Immune evasion b) Immunity in reproductive tract c) Auto-infection	\$
6.	Which coccidian protozoan shows facultatively-heteroxenous lifecycle? Write down the lifecycle and pathogenic significance of the protozoa.	5
7.	Write down the transmission processes of the following protozoa- a) Ehrlichia b) Histomonas c) Balantidium d) Leucocytozoan	4
8.	How can you diagnose following protozoa infections in laboratory-	4
	a) Trichomonas gallinae b) Theileria hirci c, Babesia bigemina d) Leishmania donovani	

Chittagong Veterinary and Animal Sciences University Faculty of Veterinary Medicine Department of Pathology and Parasitology MS in Pathology

July-December Semester Final Examination 2017

Course title: Pathology of Extraneous Poisoning

Course code: PPT-602

Full marks: 40, Time: 2 hours

(Figures in the right margin indicate full marks. Answer any 5 questions from the following)

1.	a. What are the sources of arsenic poisoning?	2
	b. Write down the pathogenesis of the acute and chronic arsenic poisoning in don	nestic
	animals.	6
2.	a. What are the sources and pathogenesis of sweet clover poisoning.	5
28	b. Write down the steps in diagnosis of sweet clover poisoning cases.	3
3.	Describe the pathogenesis of pesticide compounds poisoning.	8
4.	a. Which plant is responsible for thiamine deficiency in animals?	1
	b. Describe the neurotoxic and hemotoxic effects of snake venom.	7
5.	a. What is strychnine poisoning?	2
	b. Which trees are commonly known for causing oleander poisoning?	2
	c. Describe the pathogenesis of cyanide poisoning.	4
6.	a. How anoxia develops in nitrite poisoning?	4
	b. Which plant contains atropine? What happens when an animal eats this plant?	4

Chittagong Veterinary and Animal Sciences University Faculty of Veterinary Medicine Department of Pathology and Parasitology MS in Pathology

July-December Semester Final Examination 2017

Course title: Immunopathology

Course code: IPT-602

Full marks: 40, Time: 2 hours

(Figures in the right margin indicate full marks. Answer any 5 questions from the following)

1.	Describe the pathogenesis of hypersensitivity type I and II.	8
2.	a. Define immunopathology and immunity.	2
	b. Describe natural and acquired immunity.	6
3.	a. Describe the factors affect the immunity in a living body.	6
	b. What do you mean by transplantation rejection?	2
4.	a. Define autoimmune disease.	2
	b. Describe the pathogenesis of systemic lupus erythematosus.	6
5.	a. Write down the pathogenesis of delayed type of hypersensitivity.	4
	b. Describe how cancerous cell may incite an autoimmune response.	4
6.	a. Enlist the organs involved in immune system in a living body.	2
	b. What is acquired immunodeficiency syndrome (AIDS)?	2
	c. Describe myasthenia gravis briefly.	4

Chittagong Veterinary and Animal Sciences University Department of Pathology and Parasitology MS in Pathology

July- December Semester Final Exam- 2017 Sub: General Pathology. Course code- GPT-602 Total Marks- 40, Time- 2 hours

Figures in the right margin indicate full marks. Answer any FIVE questions.

1. (a) What are the microscopic changes found in a dead cell?	4.0
(b) Write down the microscopic lesions of infarct and moist gangrene.	4.0
(a) What are the steps found in inflammation during Chonheim's observation?(b) Name the cells involved in the process of inflammation. Describe different	3.0
types of phagocytosis of neutrophils.	3.0
(c) What type of inflammation is found in case of diphtheria? Write down its	
microscopic lesions.	2.0
3. (a) Write down the causes of metastatic calcification and microscopic lesions of	10 20
dystrophic calcification.	3.0
(b) How will you differentiate three types of jaundice?	3.0
(c) Show the mechanism of photosensitizational dermatitis in sketch form.	2.0
4. (a) Describe the causes, mechanism and microscopic lesions of fatty change.	6.0
(b) Define and classify atrophy.	2.0
5. (a) How will you differentiate haemrrhage from haemorrhagic inflammation?	
Describe different types of haemorrhages.	5.0
(b) Write short note on Nut Meg liver.	3.0
6. (a) Describe the in vivo properties of neoplastic cells.	4.0
(b) Briefly describe the mechanism of the production of neoplasms by ionizing	4.0
radiation.	4.0

Chittagong Veterinary and Animal Sciences University Department of Pathology and Parasitology MS in Pathology

July- December Semester Final Exam- 2017 Sub: Avian Pathology. Course code- APT-602 Total Marks- 40, Time- 2 hours

Figures in the right margin indicate full marks. Answer any FIVE questions.

1. Name the common diseases of poultry caused by Gram negative bacteria. Describe the different forms of colibacillosis commonly found in poultry.	8.0
2 (a) Why vitamin A is very important in poultry? What type of lesion is produced in oesophagus of layer bird due to deficiency of vitamin A?	4.0
(b) Describe the conditions produced in poultry due to the deficiency of vitamin E.	4.0
3. What is the relationship between coccidiosis and necrotic enteritis in poultry? Write down the causes and pathology of coccidiosis in chickens and black head disease in turkey.	8.0
4. (a) Why it is very difficult to control mycoplasmosis in poultry? Write down the pathogenesis and pathology of mycoplasmosis in a broiler flock.	5.0
(b) Write a short note on brooder pneumonia.	3.0
5. (a) Write down the gross lesions of infectious bursal disease.	4.0
(b) Enlist the neoplastic diseases of poultry. Write a short note on lymphoid leucosis.	4.0
 6. Write down the post mortem findings of the following diseases: (any four) (a) Newcastle disease, (b) Pullorum disease, (c) Avian influenza, (d) Infectious bronchitis, and (e) Duck plague. 	8.0