



كلية الطب البيطري

الفرقة الثالثة

قسم الباثولوجيا و الباثولوجيا الاكلينيكية



جامعة جنوب الوادي

**"General Pathology" exam for 3<sup>rd</sup> grade Veterinary Students, 2017/2018**

**(Time allowed: 3 hours)**

**1. Describe the gross and microscopic appearance of:**

- a- Gangrene (2.5 marks)
- b- Chronic venous congestion of lungs (2.5 marks)
- c- Coagulative necrosis (3 marks)

**2. Discuss the pathogenesis of: (2 marks each)**

- a- Amyloidosis
- b- Hemolytic Jaundice
- c- Infarction
- d- Autophagy

**3. Compare between: (2 marks each)**

- a- Dystrophic and Metastatic Calcification
- b- Inflammatory and non- inflammatory edema
- c- Necrosis and apoptosis
- d- Thrombus and postmortem clot

**4. Write fully on the followings: (3 marks each)**

1. Vascular changes (wall of blood vessels, blood flow and blood itself) during acute inflammation
2. Inflammatory process of inflammation and describe types and functions of chemical mediators of inflammation
3. Definition, structure and functions of neutrophils, macrophages and T-lymphocytes and describe the relation between them
4. Pathogenesis of healing and describe stages of healing by first and second intention
5. Differences between suppurative and granulomatous inflammation

**5. Please Fill in the missing parts with the correct answer: (0.5 mark/each)**

- 1- The cancer in which the cells appear as signet ring or forming acini is.....
- 2- Rodent ulcer is a locally malignant tumour arising from..... and can be diagnosed microscopically by .....



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- 3- Cancer of B-lymphocyte is called.....
- 4- Migration of cancerous cells from the site of origin to other part of the body forming secondary tumor is called.....
- 5- Acromegaly means.....
- 6- Urinary bilharziasis causing.....metaplasia, while Cystitis cystica causing.....metaplasia.
- 7- One of the possible events of the cancer is.....
- 8- Lymphatic spread of cancer may be.....or.....
- 9- The behaviour of cancer may be.....or.....
- 10- A Krukenberg tumor metastasized through.....
- 11- From the nuclear signs of malignancy is.....
- 12- Familial polyposis coli is a type of.....
- 13- Pyloric obstruction causing.....hypertrophy, while amyloidosis causing.....hypertrophy.
- 14- According to Gleason's pattern, we can classify the cancers cytologically into.....or.....
- 15- The cancer which destroy the tissue but not invade another tissue called.....
- 16- From the encapsulated benign tumor is.....
- 17- What makes sarcoma is more dangerous than carcinoma is.....
- 18- We can differentiate squamous cell carcinoma microscopically through.....
- 19- The first step for a cancer cell to start metastasis is.....
- 20- Acanthosis of squamous cell papilloma resulting from.....
- 21- The effect of the malignant tumor on the neighbouring tissue is.....
- 22- One of the most characteristic features of a dysplastic cell is.....

مع اطيب الامنيات بالتوفيق و النجاح





1<sup>st</sup> Semester Examination for 3<sup>rd</sup> Year Students

Subject: Pharmacology (General)

Time allowed: 3 hours

Date: 13/1/2018

(Total Mark: 50)

All questions to be answered

(الامتحان مكون من 4 اسئلة تقع جميعها في ورقة واحدة علي الوجهين)

**I- First Question:**

(Total Mark: 20 marks)

- 1- Describe the clinical uses of PGF<sub>2</sub> $\alpha$  in gynecology and obstetrics. (3.5 Marks)
- 2- List the therapeutic uses of amphetamine. (2.5 Marks)
- 3- Mention the general mechanisms of drugs action. (2.5 Marks)
- 4- Writ briefly on mechanism of action and clinical uses of Xanthines. (3 Marks)
- 5- Compare between adrenaline and ephedrine. (3 Marks)
- 6- Comment on pharmacological antagonism as a type of pharmacodynamic drug / drug interaction. (3.5 Marks).
- 7- Tabulate the main differences between Naloxone and Naltrexone as morphine antagonists. (2 Marks)

**II- Second Question:**

(Total Mark: 13 marks)

- 1- Comment on neuromuscular blockers. (3.5 Marks)
- 2- Writ briefly on drug transfer systems. (3 Marks)
- 3- Mention the biochemical reactions that involved in drug metabolism. (3 Marks)
- 4- Classify the parasympathomimetics with example. (3.5 Marks)

**III- Third Question:**

(Total Mark: 12 marks)

- 1- Write short notes on drug distribution models. (3.5 Marks)
- 2- Classify anti-inflammatory drugs, with referring to glucocorticoids. (3 Marks)
- 3- Comment on major tranquilizers. (3 Marks)
- 4- Explain why Edrophonium is used to differentiate between cholinergic crisis and myasthenia gravis. (2.5 Marks)

**IV- Fourth Question:**

**(Total: 5Mmarks: 0.5 Mark/each)**

**Chose the wright answer (Only one answer to be chosen):**

**1- Pharmacodynamics involves the study of following EXCEPT:**

- a)- Pharmacological effects of drugs
- b)- Absorption and distribution of drugs
- c) - Mechanisms of drug action
- d) - Side effects of drugs

**2- Irreversible interaction of an antagonist with a receptor is due to:**

- a)- Ionic bonds
- b)- Hydrogen bonds
- c)- Covalent bonds
- d)- All of the above

**3- Cocaine acts by**

- a) - The blockade of reuptake of monoamines
- b) - Inhibiting the Mono amino oxidase (MAO) activity
- d) - By direct stimulation of adrenergic receptors
- c)- Both A and B

**4- H1 receptor antagonists include any of the following:**

- a)- Diphenhydramine
- b)- Ranitidine
- c)- Cimetidine
- d)- Ephedrine

**5- Catecholamines potentiate the action of methylated xanthines:**

- a)- True
- b)- False

**6- Cerebral cortex stimulants include any of the following:**

- a)- Xanthines
- b)- Ephedrine
- c)- Amphetamine
- d)- All of them

**7- Strychnine acts by inhibiting any of the following:**

- a) - GABA
- b) - Glycine
- c)- L-glutamate
- d)- L-asparate

**8- The drug / drug interaction at the site of receptor is called pharmacokinetic drug / drug interaction:**

- a)- True
- b)- False

**9- H2 receptor antagonists include any of the following:**

- a)- Diphenhydramine
- b)- Ranitidine
- c)- Cimetidine
- d)- Both (b) and (c)

**10- Tachyphylaxis refers to which of the following?**

- a)- An acute acquired tolerance
- b)- Congenital tolerance
- c)- Inherited tolerance
- d)- Antimicrobial resistance

**With Our Best Wishes**





**Parasitology Final Examination**  
**General parasitology (First term 2017/2018)**

**Answer the following questions; illustrate your answer with diagrams**

**I- Enumerate**

**(5 marks)**

- a) The metacestodes (larval stages) of Cyclophyllideans cestodes **(2 marks)**  
b) Lung worms (Species, final host, intermediate host, infective stage and mode of infection) **(3 marks)**

**II- Write full account on**

**(10 marks)**

- a) Life cycle and pathogenesis of Pork tape worm **(4 marks)**  
b) Life cycle of Medina worm **(3 marks)**  
c) Life cycle of Liver fluke **(3 marks)**

**III- Tabulate the differences between the following**

**(10 marks)**

- a) Large *Strongylus* of equine (buccal capsule) **(2 marks)**  
b) *Ascaridia galli* and *Heterakis gallinarum* **(3 marks)**  
c) *Dactylogyrus* species and *Gyrodactylus* species **(2 marks)**  
d) Different species of *Schistosoma* **(3 marks)**

**IV- Write briefly on**

**(10 marks)**

- a) Pathogenicity, diagnosis and treatment of *Oxyuris equi* **(3 marks)**  
b) Morphological characters of *Heterophyes heterophyes* **(3 marks)**  
c) Medical importance of land snail **(2 marks)**  
d) Embryonal development of nematodes **(2 marks)**

**V- Choose the correct answer**

**(12 marks)**

1-	<b>Rumen is the habitat of all the following except</b>	
	a) <i>Paramphistomum cervi</i>	b) <i>Cotylophoron cotylophorum</i>
	c) <i>Caromyerius gregarious</i>	d) <i>Gastrodiscus aegyptiacus</i>
2-	<b>The ventral sucker is situated close to the posterior end in case of</b>	
	a) <i>Fasciola</i> species	b) <i>Schistosoma</i> species
	c) <i>Cotylophoron cotylophorum</i>	d) <i>Ascaris suum</i>
3-	<b>All the following cestodes inhabit the small intestine except</b>	
	a) <i>Moniezia expansa</i>	b) <i>Anoplocephala perfoliata</i>
	c) <i>Stilesia hepatica</i>	d) <i>Moniezia benedini</i>
4-	<b>The ants (<i>Formica</i> species) is the 2<sup>nd</sup> intermediate host of</b>	
	a) <i>Cotugnia digonopora</i>	b) <i>Raillietina tetragona</i>
	c) <i>Dipylidium caninum</i>	d) <i>Fasciola gigantica</i>

5-	<b>Aneurysm is a pathogenesis caused by</b>	
	a) <i>Dipylidium caninum</i>	b) <i>Strongylus vulgaris</i>
	c) <i>Strongylus edentatus</i>	d) <i>Fasciola gigantica</i>
6-	<b>Summer bleeding is caused by</b>	
	a) <i>Parafilaria</i> species	b) <i>Setaria</i> species
	c) <i>Onchocerca</i> species	d) <i>Wuchereria bancrofti</i>
7-	<b>Summer sore is caused by</b>	
	a) <i>Schistosoma</i> species	b) <i>Fasciola</i> species
	c) <i>Habronema</i> species	d) <i>Wuchereria bancrofti</i>
8-	<b>The intermediate host of <i>Onchocerca volvulus</i> is</b>	
	a) <i>Haematobia</i> flies	b) Culex and Aedes Mosquitoes
	c) <i>Simulium</i> species (Black fly)	d) Sand fly
9-	<b>River blindness is caused by</b>	
	a) Medina worm	b) <i>Setaria</i> species
	c) <i>Loa loa</i>	d) <i>Onchocerca volvulus</i>
10-	<b>Ground itch is caused by</b>	
	a) Medina worm	b) <i>Onchocerca volvulus</i>
	c) <i>Ancylostoma caninum</i>	d) <i>Dipylidium caninum</i>
11-	<b>Sparganosis is caused by plerocercoid of</b>	
	a) <i>Diphyllbothrium latum</i>	b) <i>Dipylidium caninum</i>
	c) <i>Taenia saginata</i>	d) <i>Spirometra</i> species
12-	<b>Esophageal worm is</b>	
	a) <i>Ascaris lumbricoides</i>	b) <i>Wuchereria bancrofti</i>
	c) <i>Spirocerca lupi</i>	d) <i>Heterakis gallinarum</i>

VI- A 11 month's old emaciated female sheep was brought to Faculty of Veterinary Medicine Clinics, with the history of anorexia, weight loss, and dark color diarrheic feces voiding for past 2 days. On clinical examination, sheep was found to be weak with bottle jaw appearance on its face, lateral recumbent position and pale conjunctival mucous membrane.

- Mention the causative parasite, its habitat and the infective stage? (3 marks)

*With our best wishes*  
*Staff members of parasitology*  
*Head of department*  
*Dr. Ismail Elshahawy*





South Valley University

الفرقة الثالثة  
البا - سيم اول  
٢٠١٨/١١/٢٠

## Milk Hygiene



Faculty of veterinary medicine  
Department of food hygiene

**3<sup>rd</sup> year students**

**January 2018**

**Time 3 hours**

**Please answer the following questions:**

**1-Write short notes on:**

- a- Manufacture and uses of casein. (6 deg.)
- b- Compare between the enzymes of sanitary importance (6.5deg.)

- 2- a) Enumerate zoonotic diseases and their causative organisms that may be transmitted to milk consumers. (8.5 deg.)
- b) Sweet curdling. (2deg.)
  - c) Proteolysis in milk and milk products. (2 deg.)

**3- Write on the following:**

- a) Isolation of *S. aureus* from raw milk. (4.5 deg.)
- b) Public health importance of inhibitory substances in milk. (4 deg.)
- c) ABRT. (4 deg.)

**4- Comment on the following:**

- a) Methods of pasteurization, stating in a table how can you apply a HACCP plan for the pasteurization step? (6.5 deg.)
- b) Describe fully CAMP and California Mastitis Tests. (6 deg.)

Good Luck.



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Faculty of Veterinary Medicine  
Dept. of Microbiology

Date: 28 -12-2017

Microbiology (3<sup>rd</sup> year exam.)

Time: 3 hours

**I- General Bacteriology & Mycology (20) Marks**

**1- Write an account on the following:-**

- a. Functions of bacterial cell wall (3 Marks)
- b. Classification of plasmids (3 Marks)
- c. Lytic cycle of bacteriophage (3 Marks)
- d. Bacterial invasions (4 Marks)
- e. Complications of antibiotics (3 Marks)
- f. Clinical classification of fungal infections (4 Marks)

**II- General Virology and Immunology (30) Marks**

**2- Answer the following questions:-**

**1- Describe briefly the following (diagram if possible):-**

- a. Virus replication cycle (5 Marks)
- b. Viral interference (3 Marks)
- c. Antiviral drugs inhibit nucleic acid synthesis (4 Marks)
- d. Non-replicating native virus vaccines (3 Marks)

**2- Tabulate the differences between each pair of the following:-**

- a. Natural killer cell and T cytotoxic cell (2 Marks)
- b. Classical and alternative pathway of complement activation (2 Marks)
- c. Immediate and delayed hypersensitivity (2 Marks)
- d. IgG and IgM (3 Marks)

**3- Write an account on the following:-**

- a. T cell subpopulations (1.5 Marks)
- b. Biological function of the complement (1.5 Marks)
- c. MHC class I and II (3 Marks)

*With our best wishes*





South Valley  
University

First Semester Examination  
Subject: Basic Animal Nutrition  
Level: Third year

Faculty of Veterinary Medicine  
Department of Animal Nutrition  
& Clinical Nutrition

الوقت المسموح - 3 ساعات

Date: 4/1/2018

Time allowed: 3 hours

**Please answer all the following questions:**

**I- Write short notes on:**

- a- Importance of vitamin A for farm animals and poultry. (4 marks)
- b- What are the causes, symptoms and species affected with: (10 marks)
  - 1- Grass tetany
  - 2- Milk fever
  - 3- Nutritional polyneuritis
  - 4- Exudative diathesis

**II- Explain:**

(12 marks, 4 marks for each point)

- a- Water requirements of livestock and factors affecting it.
- b- Essential fatty acids and their importance for animals.
- c- Availability of minerals.

**III- Write briefly on:**

(12 marks, 4 marks for each point)

- a- Selenium and vitamin E relationship.
- b- Factors that raise vitamin requirements.
- c- Importance and deficiency signs of phosphorus in farm animals.

**IV- Discuss:**

(12 marks, 4 marks for each point)

- a- Classification of feed additives with special reference to probiotics and prebiotics.
- b- Digestion and absorption of protein in ruminants.
- c- Factors affecting on salt requirements.

**Good luck**