

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR THIRD YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION

COURSE CODE: AHP 3103

COURSE TITLE: PHARMACOLOGY AND

TOXICOLOGY

DATE: 4TH DECEMBER, 2018 TIME: 0830 - 1030 HRS

INSTRUCTIONS TO CANDIDATES

Answer ALL questions

This paper consists of 2 printed pages. Please turn over.

PHARMACOLOGY AND TOXICOLOGY (120 MARKS)

1.	(a)De	efine the following terms:	(6marks)	
	i.	Half-life of a drug		
	ii.	Adverse drug reactions		
	iii.	Pharmacokinetics		
	(b)	Briefly describe the factors to considered when choosi	ing route of	
	(-)	drug administration.	(5marks)	
	(c)	Define bio-availability and describe the factors that aff	•	
	(0)	absorption.	(5marks)	
	(d)	Explain the ethical uses of drugs and agrochemicals.	(omarno)	
	(4)	Zinpram ene eumear aces er ar ags ana agreemeaner	(5 marks)	
2	(a)Lie	st factors that affect distribution of drugs in the body.	(4 marks)	
۵.		escribe different types of drug antagonism.	(6 marks)	
		escribe the different routes of drug excretion.	(10marks)	
		escribe the uniterent routes of urug exerction.	(Tomarks)	
3	. (a)Write short notes on organanochlorine pesticides residues are			
0.	impo	-	(5 marks)	
	•	escribe the factors that's affect the action of a toxicant.	,	
			(5 marks)	
		escribe poisoning management measures that hinder the	,	
		ption of the poison from the gut.	(5marks)	
	absol	priori of the poison from the gat.	(omarko)	
4.	Discu	antimicrobial resistance and the role of veterinarian under the		
	follov		. direct erre	
		Two major aspects of antimicrobial use that should be	of concern	
	٠.,	to animal health practice.	(8 marks)	
	b)	Strategies veterinarian should adopt to minimize the r	•	
	۷)	emergence of antimicrobial resistance.	(12 marks)	
		6	(,	
5.	Descr	ribe sulphonamides under the following topics:		
	i.	Mechanism of action	(6 marks)	
	ii.	Clinical use	(6 marks)	
	iii.	Principles to be followed in sulphonamide chemothera	•	
		1	(8 marks)	
6.	(a) Li	st 5 medicinal plants and their respective applications.	,	
		r r r r r r r r r r r r r r r r r r r	(10marks)	
	(b) D	escribe the various phytochemicals found in medicinal	•	
		1 3	(10 marks)	
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SUPPLEMENTARY UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR THIRD YEAR FIRST SEMESTER

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1.	(a)Gi	ive five characteristics of an ideal ectoparasiticides	(5 marks)	
	(b) State five possible sources of exposure to organ chlorine			
		poisoning in animals.	(5 marks)	
	(c)	Outline the factors affecting the activity of toxicants. (5 marks)	
	(d)	Describe the signs you would observe in an animal wi	-	
	(-)	organophosphate pesticide poisoning.	(5marks)	
		organiophiate pestierae poisoning.	(omario)	
2.	2. (a) State the major mechanism of action of antimicrobial ager			
	exam	ples of each type.	(5 marks	
	(b)De	escribe therapeutic indications of macrolides.	(5 marks)	
		escribe tetracycline under the following:	,	
	i.	Classes	(3 marks)	
	ii.	Mechanism of action	(2 marks)	
		riefly describe different types of dosage forms.	(5 marks)	
2		efine drug distribution.	(2 marks)	
٥.		_	-	
	(0) 0	utline the enzymes responsible for metabolism of drug		
	() D		(5 marks)	
		escribe phase I reactions	(6 marks)	
	(d) Describe renal excretion of the drugs and the process involved			
			(7 marks)	
4.	(a)Di	scuss the various ways in which anthelmintic drugs aff	ect energy	
	meta	bolism of worms.	(10 marks)	
	(b) D	iscuss the predisposing factors for development of ant	helmintic	
	drug	resistance by parasites.	(10 marks)	
5.	(a)De	escribe the concept of receptor and non-receptor mech	anism in	
	pharr	macodynamics.	(5 marks)	
	(b) D	escribe types of drug antagonisms and their important	ce.	
			(15 marks)	
6.	Write	e short notes on 5 phytochemicals found in medicinal p		
			(20marks)	
			(=0.1.41.1.5)	