UNIVERSITY OF SWAZILAND Faculty of Health Sciences

DIPLOMA IN ENVIRONMENTAL HEALTH FINAL EXAMINATION PAPER 2005

TITLE OF PAPER

: FOOD & MEAT HYGIENE

COURSE CODE

EHS 101

DURATION

3 HOURS

MARKS

100

INSTRUCTIONS

ANSWER ALL FIVE (5) QUESTIONS

EACH QUESTION CARRIES 20 MARKS.

NO PAPER SHOULD BE BROUGHT INTO NOR

OUT OF THE EXAMINATION ROOM.

BEGIN EACH QUESTION ON A SEPARATE

SHEET OF PAPER.

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

Question 1

Multiple Choice Questions

(Choose the most appropriate answer)

1.	Aitch or rump in beef meat refers to the;			
	A. Pelvic bones			
	B. Fibula			
	C. Radius			
	D. Ulna			
2.	Thin silver bone in cattle refers to which bone			
	A. Pelvic bones			
	B. Fibula			
	C. Radius			
	D. Ulna			
3.	Shank in cattle refers to which bone			
	A. Metacarpus			
	B. Metatarsus			
	C. Fibula			
	D. Radius			
4.	Shin in cattle refers to which bone?			
	A. Ilium			
	B. Radius			
	C. Ischium			
	D. Pubis			
5.	In which of the four stomach compartments does digestion occur or begin;			
	A. Reticulum			
	B. Omasum			
	C. Rumen			
	D. Abomasum			
6.	Sheep fats have a high amount offatty acids			
	A. Olein			
	B. Stearin			
	C. Palmitin			
	D. Linolenic			
7.	Pig fats have a high amount offatty acids			
	A. Olein			
	B. Stearin			
	C. Palmitin			
	D. Linolenic			

8.		he positional term posterior refers to;
		nearer the head
		nearer the back
		nearer the tail
	D	nearer the front
9.		he positional term, anterior refers to;
		nearer the head
		nearer the back
		nearer the tail
	D	nearer the front
10		filk curdling during the process of cheese making, occur in the presence of
		hich enzyme;
		Amylase
		Pepsin
		Ptyalin
	D	Rennin
11		leat tenderizing (partially digestion of tough meat) is a process which makes
		eat more palatable and it occurs in the presence of which enzyme;
		. Amylase
		Pepsin
		Ptyalin
	D	Rennin
12	. Pi	g saliva contains a starch splitting enzyme known as:
		A. Amylase
		B. Pepsin
		C. Ptyalin
		D. Rennin
13	. In	heifer meat, high vitamin A is stored in;
		Kidney
		Spleen
		Liver
	D	Heart
4.	In the	female, the front edge of the pubis is;
	A.	Rounded and blunt, and thickens at the junction to form the pubic
	_	tuberosity
	В.	Sharp and forms a continuous line to give attachment to muscles of the
	a	abdomen wall
	C.	Flat forming most of the floor area of the pelvic bone
	D.	Short and joins the pubic symphysis and the ischium

15. W	hich fu	nction best describe the polyvinyl chloride (PVC) tiles;		
	A.	Resistant to wear		
	В.	Resistant to heat		
	C.	Slippery when wet		
	D.	Warn to stand on		
16.		n one of the statements is not correct in reference to chlorine based		
	sanitiz			
	\mathbf{A}_{\cdot}	are bactericidal, fungicidal and virucidal		
	В.	are more corrosive at high temperatures		
	\mathbf{C}_{\cdot}	are not affected by high temperatures		
	D.	will kill all vegetative cells encountered		
17. Sodium benzoate is added in soft drinks in Swaziland in order to;				
	Α.	Destroy bacteria		
	В.	Destroy molds		
	C.	Inactivate enzymes		
	D.	Restore the color of soft drinks		
18. W		e of the food list is not a by-product of microorganisms;		
	A.	Cheese		
	В.	Yogurt		
	C.	Fermented milk		
	D.	Ice cream		
19. W l	hich bac	cterium is likely to be found in the human nose;		
	A.	Staphylococcus aureus		
	В.	Listeria monocytogenes		
	C.	Salmonella spp.		
	D.	None of the above		
20.	Name	any bacteria which is likely to contaminate food via human excreta.		
	Α.	Staphylococcus aureus		
	В.	Bacillus anthrancis		
	C .	Aspergillus parasiticus		
	D.	Salmonella typhi		

[20 Marks]

Question 2

Describe the routine meat examination of cattle in Swaziland with reference to the following head [5] visceral organs [7] offals [3] carcase [5] [20 Marks] **Question 3** a) Describe the process of food absorption in the small intestines. [6] b) Name any five (5) diseases which are zoonotic [4] [10] c) How does pre-slaughter care influence the quality of meat [20 Marks] Question 4 Compare the benefits of quaternary ammonium compounds over those of chlorine a. [5] b. State six (6) limitations of chlorinated based sanitizers in the kitchen. [6] Which cleaning method would you choose between (CIP and COP) and state your C. reasons for any choice. d. What are the major disadvantages of the use of amphoterics as sanitizers. [3] [20 Marks] **Question 5** a. What is the responsibility of food handlers in relation to food safety in the food establishment. [10] b. You have been placed at Swaziland Meat Wholesalers (Ngwenya) abattoir as EHO in charge, what improve would you recommend and why? [10] [20 Marks]