

TAMIBIA UNIVERSITY

OF SCIENCE AND TECHNOLOGY

FACULTY OF HEALTH, APPLIED SCIENCES AND NATURAL RESOURCES DEPARTMENT OF HEALTH SCIENCES

QUALIFICATION: BACHELOR OF ENVIRONMENTAL HEALTH SCIENCES		
QUALIFICATION CODE: 08BOHS		LEVEL: 7
COURSE CODE: FMH 711S		COURSE NAME: FOOD AND MEAT HYGIENE 3
SESSION:	July 2022	PAPER: THEORY
DURATION: 3 HOURS		MARKS:120

SUPPLEMENTA	RY / SECOND OPPORTUNITY EXAMINATION
EXAMINER(S)	MS. CHARMAIN JANSEN
MODERATOR:	MR IMMANEUL ZERIAPI

INSTRUCTIONS	
1. Answer ALL the questions.	

PERMISSIBLE MATERIALS: NONE

THIS QUESTION PAPER CONSISTS OF 5 PAGES INCLUDING THE COVER PAGE

SECTION A [40 MARKS]

QUESTION 1 (10 MARKS)

E.

None of the above

1.0 Choose the most appropriate alternative for each of the following: [1] 1.1 Carcass is conditionally approved for human consumption if it is affected with: A. Actinomycosis Foot and Mouth Disease В. C. Rabies D. Light infestation with C.bovis E. TB 1.2 One of the following could not be detected during ante mortem inspection: [1] A. Cysticercosis. B. None of the above C. Blackleg. D. Actinomycosis. E. Actinobacillosis 1.3 In an abscess one can find the following: [1] A. Clostridium Tetani and Salmonella spp. В Shigella Dysenteriae and Clostridium Perfringens C. Corynebacterium and Pseudomonas spp. D. E Coli and staphylococcus spp. E. Clostridium Botulinum and Bacilli cereus spp 1.4 What is the condition characterized by low red blood cells counts calls? [1] Bleeding A. В. Anaemia C. Ebola D. Diarrhoea E. None of the above 1.5 The pigsty should be meters away from a dairy. [1] A. 1 meter B. 100 meter C. 10 mm D. 10 meter E. 50 meter 1.6 White spots resulted from migration of larvae of: [1] A. Ascaris Zuum larvae in the liver of pig. В. Hydatid cyst in a liver of a dog) C. Stilechia hepatica in ovine liver. D. Fasciola in bovine liver.

1.7	Which of the following would help to prevent Cross-Contamination?	[1]
	A. Wear suitable hats in the food preparation area	
	B. Keep all meat stored together at the correct temperature	
	C. Use wooden chopping boards	
	D. Separate areas for raw and cooked meat	
	E. None of the above	
1.8 W	nich of the following foods is most associated with E Coli 0157?	[1]
	A. Raw beef mince	
	B. Salad Dressing	
	C. Pasteurized Milk	
	D. Cooked Carrots	
	E. Raw chicken	
	lisease of cattle on post-mortem characterized by the development of fibrous	12 11 21
tis	sue which causes enlargement and hardening of tongue:	[1]
	A. Cattle plague.	
	B. Actinobacillosis.	
	C. Cysticercosis	
	D. Actinomycosis	
	E. Foot and Mouth Disease	
1.10 V	/hat is the ideal temperature for Pathogens to flourish?	[1]
	A. 37 degrees.	
	B. 55 degrees	
	C. 10 degrees	
	D. 90 degrees	
	E. 110 degrees	
QUES	TION 2 (10 MARKS)	
2.0 In	dicate which statement is true or false.	
2.1	Swine flu is one of the Notifiable diseases among pigs worldwide.	[1]
2.2	Water used for washing the hands can be also used to wash the knives used for	
	inspection of meat.	[1]
2.3	For a calf, the minimum time allowed for bleeding is five minutes, and the amount of	
	Blood is 13-15 liters of blood.	[1]
2.4	Valvular pericarditis requires total condemnation of a carcass.	[1]
2.5	Free projectile means shooting the animal with a firearm.	
2.6	According to the requirements for the surface of an abattoir the interior wall should be	
	smooth, tiled for at least. 3 metres.	[1]

2.7	Icterus is also referred to as jaundice.	[T
2.8	Calcification of the brisket occurs after degeneration of the fat due to pressure.	
	This is common in pigs because they like to lie down.	[1]
2.9	Flatworms in the intestines of the pig are called Taenia saginate	[1]
2.10	Although a zebra has a natural resistance to FMD it could be artificially infected and	
	acts as a carrier.	[1]

QUESTION 3 (10 MARKS)

3.0 Give one word for the inflammation of the following parts in a bovine carcass:

3.1	Heart	[1]
3.2	Peritoneum	[1]
3.3	Pleura	[1]
3.4	Skin	[1]
3.5	Eyes	[1]
3.6	Lungs	[1]
3.7	Reticulum	[1]
3.8	Lymph nodes	[1]
3.9	Endometrium	[1]
3.10	Abomasums	[1]

QUESTION 4 (10 MARKS)

4.0 Match Column A with Column B .

[10 MARKS]

	COLUMN A	COLUMN B
4.1	A Nematodes, Roundworms Ascaris suum.	A Trematodes Fasciola hepatica
4.2	Usually common with post-calving females	B. The food safety system is in place at the
	especially dairy cows.	abattoirs.
4.3	The parasites cause marked irritation and	C Anthrax is a notifiable zoonotic disease
	hardening of the bile ducts	
4.4	Burn the carcass of the dead animal or bury	D.Rabies diagnoses
	it in lime to a depth of 1.5 m.	
4.5	HACCP	E.The cystic stage called hydatid cyst
4.6	Hyperaemia	F Gangrene or septicaemia
4.7	Disinfect the abattoir	G Silesia hepatica
4.8	Echinococcus granulose	H Causes pneumonia in the lungs
4.9	These Cestodes/ Tapeworms can	I. Excessive blood supply to any part or organ.
	be removed from the bile ducts with suction.	
4.10	Green carcass	J.Parturient paresis (milk fever)

SECTION B [40 MARKS]

QUESTION 5 (10 MARKS) 5.0 Mention the common lymph notes that a meat inspector must know. [10] **QUESTION 6 (30 MARKS)** 6.1 Explain to the meat inspectors what measles is and how to treat it and the danger of it. [15] 6.2 Table the differences between the following: A. TB and Pneumonia [5] B. Blood splashing and Melanosis [5] C. Rigor mortis and arthritis [5] **SECTION C [40 MARKS] QUESTION 7 (20 MARKS)** 7.0 Differentiate between Actinomycosis and Actinobacollosis. [20] **QUESTION 8 (20 MARKS)** 8.0 Explain in detail the requirements for a small-scale abattoir to the owner of Farm X. [20]

GOOD LUCK