FACULTY	**HEALTH SCIENCES AND VETERINARY MEDICINE**		
SCHOOL	**SCHOOL OF VETERINARY MEDICINE**		
DEPARTMENT	**PRECLINICAL VETERINARY STUDIES**		
SUBJECT	**ANIMAL WELFARE**		
SUBJECT CODE	**V3622EW**		
DATE	**6 NOVEMBER 2024**		
DURATION	**2 HOURS**	**MARKS**	**100**

FIRST OPPORTUNITY EXAMINATION: MEMORANDUM

EXAMINERS: **DR. B. Y. KAURIVI**
INTERNAL MODERATOR: **PROF. O. MADZINGIRA**
EXTERNAL MODERATOR: **PROF D PFUKENYI**

This question paper consists of three **(3)** pages including this front page.
Additional materials to be supplied: **NONE**

Instructions
This question paper consists of fifteen **(15)** questions. Answer all questions.

1a	Why is "sentiency" important for animal welfare?	3
1b	Why is it not possible to eliminate negative affective states from animals?	3
2a	Explain why animal welfare is viewed as a complex and multifaceted concept/topic?	6
2b	How did scientific evidence contribute to the improvement of the welfare of animals over the years?	6
3	One function of the World Organisation for Animal Health (WOAH) is to strengthen national veterinary services. How can the WOAH do this in Namibia?	6
4	In Namibia, hot iron branding is a requirement for permanently identifying beef cattle. What is your opinion on this practice? Outline advice to producers on the correct use of this procedure.	4
5	You plan to recommend the setting up of new animal welfare standards for the branding of cattle to the WOAH. Without mentioning the specific standards, indicate what the proposed standards should be based on in order to be valid?	3
6a	Personal ethics are different from personal preferences. Indicate whether the following are a 'preference statement' or 'moral value statement' [2].) Motivate your answer for each statement [2] i. 'I like beans' ii. 'We ought to avoid eating animals and get our dietary protein from beans instead'	4
6b	You are faced with an ethical issue relating to the surgical alteration of a horse's tail for show purposes (i.e. for cosmetic reasons only). Outline the six-point framework of ethics to help you evaluate the ethical problem/dilemma.	6
6c	The ethical and economic drivers for animal welfare are complementary. Explain why this statement is valid in food production systems.	3
6d	List three (3) examples of scenarios where there could be a conflict between animal ethics and the environment in Namibia.	3
6e	Explain the "Deontological ethical theory"? Use appropriate examples in your answer.	3
7a	Using four (4) appropriate examples, explain why reproductive performance can be regarded as an animal welfare indicator for sheep.	4
7b	Improper handling can result in fear and distress in cattle. Name any four (4) indicators that could be included in the assessment of cattle welfare during handling.	4
8	Explain why haematocrit is used as a physiological measure of stress in animals.	3
9	Identify and discuss animal welfare problems that can be encountered at the local markets or livestock auctions.	6

10a	One form of slow-onset disaster is known as a 'complex emergency'. What does this disaster involve?	2
10b	What does "Preparedness" mean in relation to a disaster?	1
11	As a veterinarian, you are regarded as a role model for the improvement and maintenance of animal welfare. Briefly explain why a veterinarian should take this role very seriously in all circumstances.	3
12a	Describe how pre-slaughter stress causes the quality of meat to become dark, firm and dry.	5
12b	Discuss why an antemortem inspection is an important component of an animal welfare assessment protocol at the abattoir.	6
12c	What two (2) critical precautions should be taken before or during the stunning of an animal?	2
13	Inappropriate transportation has a negative impact on the health of animals. Use examples of various animals' species to support this statement.	5
14	Explain how the "ease of movement" can be used as a criterion for animal welfare in donkeys using two (2) appropriate examples.	4
15	Some people argue that suffering is a feature of life and that prevention of suffering by shortening life is unnatural. Comment on why veterinarians justify euthanasia as "humane killing" (2 marks). Include three (3) appropriate examples of cases that can justify euthanasia (3 marks).	5
	END	