



KENYATTA UNIVERSITY

UNIVERSITY EXAMINATIONS 2010/2011

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE (ANIMAL HEALTH)

SZH 203: VETERINARY AND MEDICAL BIOCHEMISTRY

DATE: Thursday 25th November 2010

TIME: 8.00a.m – 10.00a.m

INSTRUCTIONS:

Answer ALL questions in section A and ONE question in section B. Within a section all questions carry equal marks. Illustrate your answers with diagrams and give examples wherever appropriate.

SECTION A

1. Explain the use of carboxylic acid derivatives as analgesics and antipyretics
2. Describe proteins that inhibit tumor growth.
3. Explain the structure, biological functions and deficiency symptoms of vitamin A.
4. Give an account of the coenzyme forms, biochemical role and disorders of folic acid.
5. Explain the disorders of sphingolipid metabolism.

6. Describe liposome delivery systems in medicine.
7. Outline the use of enzyme in the diagnosis of myocardial infarction.
8. Describe the mechanism of the action of heroin and morphine on the brain.

SECTION B

9. Describe the chemical structure, cosmetic and clinical applications of collagen.
10. Discuss the effects of insulin and glucagon on cellular metabolism.
11. Give an account of the role of steroids in the reproductive cycle.