

CHUKA

UNIVERSITY



UNIVERSITY EXAMINATIONS

**EXAMINATION FOR THE AWARD OF CERTIFICATE IN ANIMAL HEALTH
AND PRODUCTION**

ANHE 00121: GENERAL PATHOLOGY

STREAMS: CERT. ANHE

TIME: 2 HOURS

DAY/DATE: TUESDAY 09/04/2024

8.30 A.M. – 10.30 A.M.

Section A (Answer all the questions from this section) (40 marks)

- 1) Define the following terms,
 - a) Pathology (1 mark)
 - b) Lesion (1 mark)
 - c) Prognosis (1 mark)
 - d) Hypoxia (1 mark)
 - e) Transudate (1 Mark)
 - f) Infarction (1 Mark)
- 2) Differentiate hypertrophy from hyperplasia, and provide examples of each. (6 Marks)
- 3) Define the term "pathognomonic lesions" and provide THREE examples of pathognomonic lesions. (2 Marks)
- 4) Identify the four intracellular systems that are particularly vulnerable during cell injury (4 Marks)
- 5) Define and classify a granuloma (4 Marks)
- 6) List THREE causes of tissue infarction (3 Marks)
- 7) Define apoptosis and list FOUR examples of physiologic processes where apoptosis occurs (5 Marks)

- 8) Distinguish between acute and chronic Inflammation. (2 Marks)
- 9) Kindly discuss at least THREE complications that may be associated with wound healing (3 Marks)
- 10) Write short notes on pathologic calcification (5 Marks)

Section B (Choose any two (2) questions from this section) (30 marks)

- 9) a). A dog has been involved in a fatal accident. After a few hours the carcass appears swollen, smelly and rigid. Explain the occurrence of the above phenomenon (10 Marks)
- b). A farmer seeks your opinion regarding a lesion on his cow. On examination, you find that the lesion is well demarcated, dark red, raised with a fluidy consistency. Interpret this lesion and give possible diagnosis (5 Marks)
- 10) a) Write short notes on cell membrane injuries (10 Marks)
- b) Discuss Hypoxia (5 Marks)
- 11) a) Discuss thrombosis (4 marks)
- b) Discuss the potential cellular changes that may occur following toxic exposure in animals' tissues. (4 marks)
- c) Describe several situations in which an animal might experience gangrene. What are the potential consequences of untreated gangrene? (5 marks)
- d) What is Algor mortis and why is it important during post-mortem examination? (2 Marks)
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