K25FY3169 Pages: 2 Reg No:.....
Name:.....

Third Semester FYUGP Degree (Reg) Examination
NOVEMBER 2025
KU3DSCZOO201 - ANIMAL PHYSIOLOGY

2024 Admission onwards

Time : 1.5 hours Maximum Marks : 50

Section A

Answer any 6 questions. Each carry 2 marks.

1. Name any two abnormal constituents of urine and their causes.
2. Describe the structure of a nephron.
3. Explain threshold stimulus.
4. Define neuronal summation.
5. Describe dead space and dead air?
6. Explain the conduction of heart beat.
7. Name the three pairs of major salivary glands in humans. Add notes on the function of saliva in digestion.
8. Name any two neurotransmitters involved in digestion and GI tract movement.

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Section B

Answer any 4 questions. Each carry 6 marks.

9. Generate an overview on the neural and chemical control of respiration.
10. Briefly describe the transport of oxygen from lungs to the tissues.
11. Generate an account on the conduction system of heart.
12. Construct a comparative chart between Kwashiorkor and Marasmus, emphasizing causes, symptoms, and preventive measures.
13. A patient has weak muscular contractions in the small intestine. Apply your knowledge of histology and GIT movements to explain digestion and absorption.
14. Construct a summary table showing sources, stimuli, and actions of the main GI hormones

Section C

Answer any 1 questions. Each carry 14 marks.

15. Explain the counter-current mechanism and its role in concentrating urine along with the processes of reabsorption and secretion. Include a neat labelled diagram to illustrate your answer.

16. Compare and contrast the mechanisms, advantages, and limitations of electrical, chemical, and mixed synaptic transmissions.

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