

**ANIMAL FORM AND FUNCTION –ZOU 2264  
ZOOLOGY – LEVEL 4  
FINAL EXAMINATION – 2007/08  
PAPER II**

**INDEX NUMBER:-----**

*Question number 1 is compulsory*

**PART A**

1.1 What is meant by excretion in animal ?

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1.2 Write three different ways that nitrogen wastes are produced in human body

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1.3 Mention three major type of nitrogenous excretory products in animals

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1.4. What are the excretory organs found in following animals?

	Animal	Excretory organ
1	Earthworm	
2	Grass hopper	
3	Eagle	
4	Old world monkey	

1.5 What is a counter current mechanism ?

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1.6 What are the major components of counter current system found in human kidney ?

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1.7 Name major process occur in urine formation

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1.8 In which part of human nephron , the facultative reabsorption of water occurs ?

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1.9 Which part of the nephron has specialized in birds ? Give reason for specialization.

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1.10 Name two hormones which affect the function of human kidney

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1.11. Glucose is not found in the urine of healthy person but hypo secretion of insulin causes different diseased condition in human body.

1.11. a. Name the diseased conditions in human caused by hyposecretion of insulin

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1.11 b. What are the other diseases in man caused by the disease mentioned in 1.11. a.

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1.11. c State four physiological processes that come into operation under in hyperglycaemic condition in man to restore homeostasis.

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1.12 Write three differences between second messenger mechanism and the direct gene activation mechanism in following table.

	Second messenger mechanism	Direct gene activation mechanism
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2		
3		

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**DURATION – THREE HOURS**

DATE 25<sup>TH</sup> JUNE 2008

TIME : 1.30 PM – 4.30 PM

**PART B**

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**Answer any 4 (four) questions**

**Wherever necessary illustrate you answers with clearly labeled diagrams.**

2. Describe the regulation of gastric secretion in human stomach during digestion.
3. What are the advantages and disadvantages of ectothermy? Giving reasons discuss which type of environment would be it be best to be an endothermic animal?
4. Discuss the sequential events associated with the sliding filament mechanism of skeletal muscle contraction.
5. Explain briefly the cardiac cycle and the role of cardiac conducting system in blood circulation.
6. Describe the human menstrual cycle and discuss the role played by the brain in regulation of human menstrual cycle.
- 7 Write short notes on **any two** of the followings
  - i.. Anaerobic respiration
  - ii. Breeding habits of animals
  - iii. Cellulose digestion in ruminants