



THE OPEN UNIVERSITY OF SRI LANKA
BSc DEGREE PROGRAMME
FINAL EXAMINATION -2010/2011
COURSE CODE ZOU 2264 / ZLU 2280
ANIMAL FORM AND FUNCTION
ZOOLOGY – LEVEL 4
DURATION – THREE HOURS

Index Number :-----

DATE : 4 JULY 2011

TIME : 9.30 AM – 12.30 PM

Instructions to candidates

- Question paper consists of **PART A** and **PART B**.
- **PART A** is compulsory and answers should be provided in space given in question paper.
- **PART B** has six questions and answer **any four (4)** questions.
- Answers for **PART B** should be provided in answer books/papers.
- Handover both answer scripts and **PART A**

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Part 1 (30 minutes)

Question 1 (Compulsory)

Question 1 is based on Figure 1

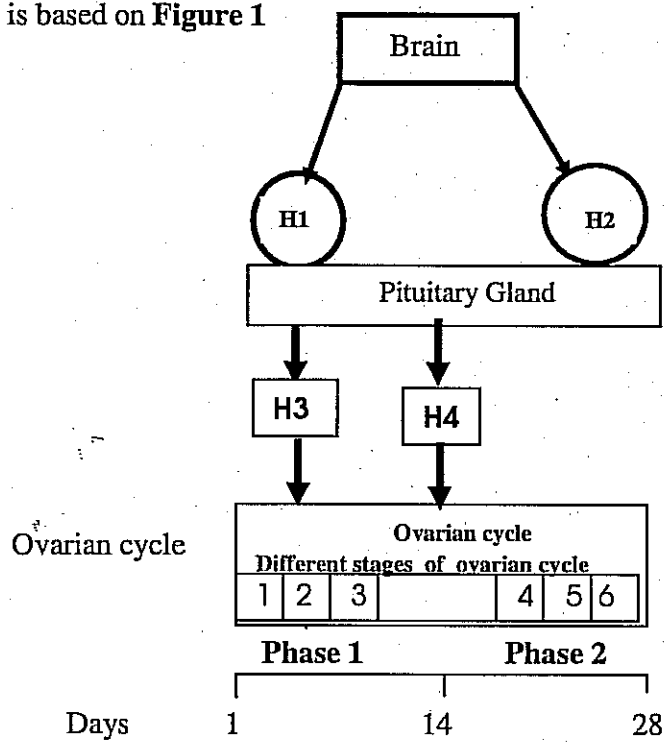


Figure 1

1 . Figure 1 shows functions of one of the endocrine gland of human body.

1.1 Define what is an endocrine gland ?

1.2 Name the hormones labeled as **H1,H2 ,H3 and H4**

H1 ----- **H2**-----
H3 ----- **H4**-----

1.3 Which part of the pituitary gland is affected by **H1** and **H2** ?

1.4 Name different stages of the ovarian cycle that are labeled as 1,2,3,4,5, and 6 in **Figure 1**

1----- 2----- 3-----
 4----- 5----- 6-----

1.5 Name the event that should take place between **stages 3 and 4**

1.6 Out of the hormones **H1,H2 ,H3 and H4** name the hormone which affect the event that you mentioned in 1.5

1.7 Name the phases 1 and 2 show in **Figure 1**

Phase 1 ----- Phase 2-----

1.8 Define the differences between ovarian cycle and the menstrual cycle

1.9 Name hormones that are released by the ovary during phase 1 and phase 2

Phase 1 -----

Phase 2-----

1.10 Write the physiological role of the hormones released by the ovary during **phase 1** and **2**

	Hormone/s/	Physiological role
Phase 1		
Phase 2		

1.11 Describe what would happen to hormone levels in blood that you have mentioned in 1.10 if implantation occurs.

1.12. In some animals there is a period called **oestrus** period. What is meant by **oestrus** period?

1.13. Write major differences between the menstrual cycle and the oestrus cycle

Menstrual cycle	Oestrus cycle

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Part B (2hrs and 30 minutes)

Answer any four (4) questions

2. Briefly describe the different immune response that occur in human body.
3. Describe the role of the kidney in osmoregulation of human body.
4. Briefly describe the structure of the skeletal muscle and explain the sliding filament theory of muscle contraction.
5. Briefly explain how nerve impulse is transmitted across the synapses
6. Describe the cardiac cycle of the human heart and its conducting system.
7. Write short notes on any two of the followings
 - a. Cellulose digestion in ruminants.
 - b. Anaerobic respiration in living cell.
 - c. Anti-clotting mechanism of blood.
 - d. Regulation of blood glucose level.