DAGKI Pest papers



vi)

Oestrus cycle

R ARTHUR LEWIS COMMUNITY COLLEGE DIVISION OF AGRICULTURE

1999/2000 ACADEMIC YEAR CERTIFICATE PROGRAMME **END OF SEMESTER 1 EXAMINATION**

ANIMAL STUDIES - ANS511 / #AI

Sir Arthur Lewi

(5 marks)

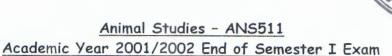
DECEMBER 1999 TIME: 2 HOURS

ANSWER ANY FOUR QUESTIONS

ANSWER ANY <u>FOUR</u> QUESTIONS.				
	1.	(a)	Outline the importance of Homeostasis.	(10 marks)
		(b)	Explain the process of diffusion and Osmosis.	(15 marks)
	2.	a)	Discuss two methods of measuring growth.	(10 marks)
	-	b)	With the aid of a diagram explain type of growth common mammals.	to (15 marks)
	3.	a)	Outline the stage of the cell cycle.	(10 marks)
		b)	Discuss the mitotic process and indicate its importance to	cells. (15 marks)
	4.	a)	Discuss crossing over as it occurs in meiosis.	(10 marks
		b)	Explain the differences between Prophase I and Prophase I Meiosis.	l of (15 marks)
	5.	a)	Explain the functions of the male and female reproductive	organs. (10 marks)
		b)	Outline the process of development of an ovum from fertiling parturition	zation to (15 marks)
	6.	Write	short notes on any five of the following.	(5 marks)
		i)	Scientific Methods	(5 marks)
		ii)	Chemical nature of life	(5 marks)
		iii)	Mixtures	(5 marks)
		Iv)	Turgor pressure or plasmolysis	(5 marks)
		v)	Reduction division	(5 marks)

JF BAGRI Past Papers

SIR ATHUR LEWIS COMMUNITY COLLEGE DIVISION OF AGRICULTURE Certificate in Agriculture



Time: 2 ½ hours

Date: 10th December 2001

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Answer any five (5) questions. Each question is worth 20 marks.

- 1. a) Define the term "Homeostasis". (4 marks)
 - b) Compare and contrast the processes of Osmosis and Diffusion.
 (6 marks)
 - c) Outline the active transport process and discuss its importance to living systems. (10 marks)
- 2. a) Define "Growth". (4 marks)
 - b) Discuss two methods of measuring growth. (6 marks)
 - c) Describe what is meant by the terms "Continuous" and "Discontinuous". (10 marks)
- 3. a) Name the stages of the cell cycle. (4 marks)
 - b) Describe the phases of Mitosis. (8 marks)
 - c) Explain the significance of Mitosis. (8 marks)
- 4. a) Define Meiosis. (5 marks)
 - b) Compare and contrast Mitosis and Meiosis. (10 marks)
 - c) Explain the importance of Meiosis in sexual reproduction. (5 marks)
- 5. a) Name two types of asexual reproduction. (10 marks)
 - b) Discuss the process of chiasmata in reproduction. (3 marks)
 - c) Explain the significance of synapsis in Meiosis I. (12 marks)
- 6. a) List the names of the structures, which make up the female reproduction system. (marks)
 - b) Explain the function of the male reproductive system. (marks)
 - c) Draw and label a diagram of the male reproductive system of a pig (marks)

- Outline the stages of the Oestrus cycle 7. a) Discuss the importance of high reproductive performance. b) Explain the importance of the hormone testosterone. 8.
- Write short notes on any five of the following:-
 - Homologous chromosomes a)
 - Second meiotic division b)
 - Passive transport c)
 - Dry weight d)
 - Genetic Stability e)
 - f) Fission
 - Semen production g)
 - Vas deferens h)

DACTRI part papers

SIR ARTHUR LEWIS COMMUNITY COLLEGE DIVISION OF AGRICULTURE

CERTIFICATE PROGRAMME SUPPLEMENTAL EXAMINATION 2000

ANIMAL STUDIES - ANS511



TIME: 2 HOURS

JULY/AUGUST 2000

ANSWER ALL FOUR QUESTIONS.

- 1. a) Define "Homeostasis".
 - b) Explain two methods of measuring growth.
- 2. a) Outline the four stages of the cell cycle.
 - b) Explain the significance of Mitosis.
- 3. a) Outline the stages of Meiosis.
 - b) Discuss the importance of Meiosis in reproduction.
- a) Define the passive transport.
 - b) Explain the relationship between Osinosis and diffusion.