THE OPEN UNIVERSITY OF SRI LANKA
B.Sc./ B. Ed. DEGREE PROGRAMME – LEVEL-4
FINAL EXAMINATION 2011/2012
COURSE CODE- ZLU2280/ZOU2264
COURSE TITLE – ANIMAL FORM AND FUNCTION
DURATION - THREE HOURS.



	Index Number		
DATE- 1 ST DECEMBER 2012	TIME - 9.30am -12.30 p.m		

Instructions to candidates.

- 1. This question paper consists of two parts; A and B.
- 2. Answering part "A" is compulsory and answers to parts 1.1-1.16 should be provided in spaces provided in the paper.
- 3. Part "B" consists of six (06) questions and you have to answer any four (04) questions.
- 4. Answers to questions in part B should be written in answer books/papers provided.
- 5. Candidates should **return** both parts A and B to the examiner, at the end of the examination.

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DATE- 1 ST DECEMBER 2012	TIME - 9.30am -12.30 p.
PART- "A"(30 MIN	NUTES)
Question-1 (compulsory)	
1.1.1 What are the principal categories into which ar	nimal tissues are divided?
1.2 Give three characteristic features of epithelial ti	ssues.
1.3 Based on the function, epithelial tissues are divid	
1.4 Collections of epithelial tissues can form two types of glands?	

1.5 Identify figures "A", "B" and "C" and complete Table-1 given below with the relevant information in empty cages.Table-1

Table-	1		
Figure			
	"A"	"B"	"C"
Epithelial type		Stratified squamous epithelium.	
Structure	Usually consists of only two or three layers of cuboidal cells.		
Function			Accomodation of fluid content and permitting distension.
Location		Outermost layer of skin	

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1.6	What are the two major constituents of connective tissues?

1.7	One of the above mentioned constituents is non-living . What is it?		
1.8	What are the three types of fibre present in the matrix of connective tissue?		
1.9	Depending on the cell type, fibre type and the amount of matrix present, connetissues are divided into four types. What are those?		
1.10	Name the three types of connective tissues?		
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1.11	Of the above three loose connective tissues, which is the most widely distributed connective tissue in animals?		

1.12	.12 Make a fully labeled diagram of a loose connective tissue of your choice , in the space provided below.				
1.13	What is the major function of cartilage in an animal?				
1.14	What are the main constituents of cartilage?				
1.15	Name the three types of cartilage found in vertebrates.				
1.16	What are the characteristics of blood that allows us to tissue?				
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PART-B

Answer any four (04) questions.

- 2. i) What are the major dietary constituents of man?
 - ii) Discuss their sources and functions/roles in a healthy person.
- 3. i) Compare and contrast, open and closed circulatory systems in animals, using suitable examples.
 - ii) Discuss the advantages and disadvantages of single and double circulations.
- 4. Explain how endotherms overcome fluctuations of temperature in the environment to maintain a steady state in their body temperature.
- 5. Describe the sequential events in spermatogenesis in a human male, along with the hormonal regulation which involves feedback mechanisms.
- 6. "Malfunctioning of endocrine glands can result in various disorders in human beings". Justify this statement giving examples.

7.

Write short notes on any two of the following:

- i) Invertebrate muscles.
- ii) The human Cardiac cycle.
- iii) Neuroglial cells.
- iv) Neuromuscular junctions.

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