

MAASAI MARA UNIVERSITY

REGULAR UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR SECOND YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL **RESOURCE MANAGEMENT BACHELOR OF SCIENCE IN ANIMAL HEALTH** AND PRODUCTION

COURSE CODE: AHP 1203 **COURSE TITLE: HISTOLOGY AND CELL** BIOLOGY

DATE: 11TH DECEMBER, 2018

TIME: 1430 - 1630 HRS

INSTRUCTIONS TO CANDIDATES

Answer ALL questions

This paper consists of 2 printed pages. Please turn over.

HISTOLOGY AND CELL BIOLOGY (120 MARKS)

1.	Organs of the digestive tract typically have 4 concentric coa	its.
	Proceeding outward from the lumen describe them with an	aid of a
	diagram	(20Marks)

2.	(a)Give the distinctive structural component of the wall of the track (4 Ma		
	(b)Outline the features that distinguish bronchi from bronc		
	(c)State the importance of elastin in the respiratory system		
	(d)Name the cells of the alveoli giving their function	(6Marks) (6Marks)	
3.	(a) State the purpose of staining during tissue slide prepara	tion	
		(2mark)	
	(b) State how the above purpose in 3a is accomplished	(4marks)	
	(c) Name two general categories of stains	(4marks)	
	(d) Explain the tissue fixation process	(4marks)	
	(e) State three functions of tissue fixation	(6 marks)	
4.	Define the following terms		
	Cell	[2 Marks]	
b)	Unicellular	[2 Marks]	
-	Multicellular	[2 Marks]	
-	Hypertonic solution	[4 Marks]	
-	Hypotonic solution	[4 Marks]	
f)	Isotonic solution	[4 Marks]	
Ę	Name 10 cell organollog and explain their function [7]	0 Morkel	
		20 Marks] [Marks]	
0.	L - L - L -	lo Marks]	
	с	8 Marks]	
	d. State three events that generate genetic diversity in meio	-	

[6 Marks]

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SUPPLEMENTARY UNIVERSITY EXAMINATIONS 2018/2019 ACADEMIC YEAR THIRD YEAR FIRST SEMESTER

SCHOOL OF TOURISM AND NATURAL RESOURCE MANAGEMENT

BACHELOR OF SCIENCE IN ANIMAL HEALTH AND PRODUCTION COURSE CODE: AHP 1203 COURSE TITLE: HISTOLOGY AND CELL BIOLOGY

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HISTOLOGY AND CELL BIOLOGY (120 MARKS)

1.	Describe the process of preparation of tissue for histological		
	examination	(20marks)	
2.	Using example in each class, exhaustively describe the classification of		
	epithelial tissue	(20marks)	
3.	(a)Describe the microscopic structure of testis	(10 Marks)	
	(b) Describe the histological structure of the uterine wall	(10 Marks)	
4.	Discuss the 4 principle types of junctions between animal ce		
5.	Stepwise, describe the stages of mitosis	[20 Marks] [20 Marks]	
6.	In a tabular format, compare and contrast the exterior structures and interior structures/organelles of a bacterium, animal and plant cell		
	, , , , , , , , , , , , , , , , , , , ,	[20 Marks]	