

2nd SEMESTER 2010/2011

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UNIVERSITY OF SWAZILAND SUPPLEMENTARY EXAMINATION PAPER

PROGRAMME

ALL B.SC. YEAR I

COURSE CODE

AS 101

TITLE OF PAPER

ZOOLOGY.

TIME ALLOWED

TWO HOURS

INSTRUCTIONS

ANSWER ANY FOUR QUESTIONS

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QUESTION ONE Compare between:	
a) Mitosis and Meiosis	(5 Marks)
b) Autotrophic nutrition and Heterotrophic nutrition	(5 Marks)
c) Collagen fibres and Elastic fibres	(5 Marks)
d) Deletion and Translocation chromosome mutations	(5 Marks)
e) Red blood cells and White blood cells	(5 Marks)
QUESTION TWO	
Give an account of the following:	
a) Steps of Animal domestication	(5 Marks)
b) Classification of Chordata	(5 Marks)
c) Simple diffusion	(5 Marks)
d) Types of ribonucleic acid (RNA)	(5 Marks)
e) Phagocytosis	(5 Marks)
QUESTION THREE	
a) Name and give the functions of each of any five (5) cytoplasmic org	anelles found
in the cell of animals	(15 Marks)
b) Describe the structure of cartilage and bone tissues	(10 Marks)
QUESTION FOUR	
Indicates the function (s) of each of the following:	
a) Thyroid Stimulating Hormone	(5 Marks)
b) Luteinizing Hormone (LH)	(5 Marks)
c) Antidiuretic Hormone (ADH)	(5 Marks)
d) Cartilage tissue	(5 Marks)
e) Blood	(5 Marks)
QUESTION FIVE	
a) Describe, with the aid of a labelled diagram, the structure of a typical	tubular organ (15 Marks)
b) Describe the mechanisms by which the hypothalamus regulates the production of	
hormones of the Anterior pituitary gland.	(8 Marks)
c) Define a gene	(2 Marks)
c) Define a gene	(= 1.1)