



BLG1502

October/November 2013

ANIMAL AND PLANT DIVERSITY

Duration

2 Hours

100 Marks

EXAMINERS:

FIRST SECOND DR SM MAHLO PROF SR MAGANO

Closed book examination.

This examination question paper remains the property of the University of South Africa and may not be removed from the examination venue.

This paper consists of 3 pages

Answer ALL questions

SEC	CTION A	[50]
QUI	ESTION 1	
11	Compare the cell structure of a prokaryotic cell with a eukaryotic cell	(5)
12	Name the similarities between plants and green alga	(5)
		[10]
QUE	ESTION 2	
21	Compare parenchyma and collenchyma with regards to a) Structure and composition of the cell wall b) Functions c) Positions in plants	(10)
22	Explain how a photosystem harvests light	(10) [20]
QUE	ESTION 3	
3 1	Explain the mechanism by which water rises in the plant to reach the leaves	(10)
3 2	By means of a diagram explain the process of double fertilization flowering plants	(10)
		[20]
SEC	TION B	[50]
QUE	ESTION 4	[10]
41	Distinguish between radial and bilateral symmetry.	(4)
42	Name the three subphyla of the phylum Chordata and give examples of each	(6)
QUE	STION 5	
51	Distinguish between open and closed circulatory systems and give an example of animal in which each occurs. Also name the three basic components common to both systems.	(7)
5 2	Describe pulmonary and systemic circuits	(8)
		[15]

QUESTION 6

Ν	lam	e ti	he l	hoi	m	าท	29	of

QUE	ESTION 7	
		[8]
63	Pineal gland	(1
62	Adrenal gland	(4)
6 1	Gonads	(3

7 1 Discuss the process of homeostasis (7)
 7 2 Describe and compare the process of conduction, convection, radiation and evaporation (10)

[17]

TOTAL: 100 marks

© UNISA 2013