COURSE CODE: B204 (S) 2016

Page 1 of 2

UNIVERSITY OF SWAZILAND

SUPPLEMENTARY EXAMINATION PAPER 2016

 TITLE OF PAPER : INVERTEBRATE ZOOLOGY

 COURSE CODE : B204

 TIME ALLOWED : THREE HOURS

 INSTRUCTIONS : 1. ANSWER ANY FOUR (4) QUESTIONS

 2. WHEREVER POSSIBLE ILLUSTRATE YOUR ANSWERS WITH LARGE CLEARLY LABELLED DIAGRAMS

 SPECIAL REQUIREMENTS: NONE

THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN GRANTED BY THE INVIGILATORS

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	Page 2 of 2
QUESTION 1	0
 a. Compare and contrast the variation in animal body plans with regard i. Symmetry 	to the following:
ii. Cellularity	(15)
b. Differentiate between the following:	
i. Gametes and gonads	(2)
ii. Synapomorphy and sympleisiomorphy	(4)
iii. Enterocoelous and schizocoelous condition	(4)
	[Total marks = 25]
QUESTION 2	
-	
Write notes on the structure and function of the following:	
i. Exoskeleton	*
ii. Pseudopodium iii. Water vascular system	
in. Water Vascular System	[Total = 25 marks]
QUESTION 3	; []
Invertebrates contribute significantly to ecosystem health. Discuss the the following: i. Cnidaria ii. Oligochaeta	ecological role of each of
iii. Insecta	
OUESTION A	[Total = 25 marks]
QUESTION 4	
Write a short essay on any <i>two</i> of the following topics: i. metamorphosis	
ii. polymorphism in Cnidaria	
iii. body cavities	
QUESTION 5	[Total = 25 marks]
QUESTION 5	
Write an account of feeding habits in the Phylum Mollusca.	[Total = 25 marks]
QUESTION 6	
a. Gastrulation is considered to be an important stage in the ontogeny of this statement and elaborate on the various methods observed among the statement and elaborate on the various methods observed among the statemethod of the statemethod	-

this statement and elaborate on the various methods observed among the Metazoa.(15)b. Explain paedomorphosis and elaborate on its evolutionary significance.(10)

[Total = 25 marks]