

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF ENVIRONMENT & HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR:

BACHELOR OF SCIENCE IN FISHERIES AND OCEANOGRAPHY

BSFO 16S/YEAR 2/ SEMESTER 1 AFO 4205: AQUATIC INVERTEBRATE ZOOLOGY

SPECIAL/ SUPPLIMENTARY EXAMINATIONS SERIES: SEPTEMBER 2018 TIME: 2 HOURS

Instructions to Candidates This paper consists of FIVE questions Answer question ONE (COMPULSORY) and any other TWO questions. *This paper consists of two printed pages. Mobile phones are NOT allowed in the examination room*

QUESTION ONE. (30 MARKS)

i.	Spicules	(2marks)
ii.	Osculum	(2marks)
b) Differentiate between the polyploid and medusoid body forms		(4marks)
c) Which are the THREE factors that affect sponge habitat?		
d) Outline THREE types of diversity		
e) Name the THREE types of canal system of sponges.		
f) Name any FOUR traits used to classify fresh water organisms		
g) Describe feed and feeding in spinucules.		(5marks)
h)	i) What are choanocytes?	(2marks)
	ii) Why are choanocytes important for sponges?	(2marks)

QUESTION TWO. (20 MARKS)

Entoprocts are marine organisms that are tiny and sessile but are found in all spheres from the poles to the tropics.

a. Describe their body form. (10marks)

b. Discuss the nervous, respiratory, excretory and reproductive systems in entoprocts. (10marks)

QUESTION THREE. (20 MARKS)

Discuss the distinguishing features of crustaceans.		
QUESTION FOUR. (20 MARKS)		
Discuss feed and feeding in ctenophores.	(20marks)	

QUESTION FIVE. (20 MARKS)

Rotifers have a great variety of shapes. Describe their body form. (20marks)