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EXAMINATION FOR THE AWARD OF BACHELOR OF SCIENCE IN BIOLOGY ZOOL 311: FRESHWATER BIOLOGY STREAMS: B.SC. (BIO) Y3S1 TIME: 2 HOURS DAY/DATE: THURSDAY 06/12/2018 2.30 P.M – 4.30 P.M

INSTRUCTIONS:

1. Answer all question in section A and any two from section B

SECTION A: 30 MARKS

1.	State the unique properties of water that make it a suitable habitat for aquatic organisms.	
		[5 marks]
2.	From a fresh water ecologists point of review explain the difference between lakes and	
	rivers.	[4 marks]
3.	Write explanatory notes on the following terms;	
	(a) Function feeding guilds in streams.	[2 marks]
	(b) Eutrophication process.	[2 marks]
	(c) Zonation of fresh water lakes.	[2 marks]
4.	Explain adaptations of hyporrheic fauna to ground water habitats.	[4 marks]
5.	Describe with the aid of a diagram energy and matter flow in a lacustrine environment.	
		[5 marks]
6.	(a) State the ecological importance of wetlands.	[4 marks]
	(b) Write explanatory notes on holomictic and meromitic lakes.	[4 marks]

SECTION B (40 MARKS)

7.	Discuss the origin and distribution of lakes.	[20 marks]
8.	Give an account of variations of physical and chemical parameter of water from a river	
	source to the mouth.	[2 marks]
9.	Discuss the causes and remedies of pollution of fresh water ecosystems.	[2 marks]