

DEPARTMENT OF ANIMAL AND ENVIRONMENTAL BIOLOGY RIVERS STATE UNIVERSITY, NKPOLU-PORTHARCOURT FIRST SEMESTER EXAMINATION, 2021/2022 SESSION

COURSE TITLE: BASIC BIOLOGY I COURSE CODE: BIO 101 MAX.MARKS 70% CREDIT UNIT:3 TIME ALLOWED :2HRS DATE OF EXAMINATION 06/07/2022 NAME OF CANDIDATE..... MATNO. DEPARTMENT.... SECTION A (40marks) INSTRUCTIONS: ANSWER ALL QUESTIONS FROM SECTION A AND ANY THREE FROM SECTION B. NO STUDENT IS ALLOWED TO ENTER THE EXAMINATION HALL WITH MOBILE PHONES. 1. The process via which multiple organisms gain a greater or lesser share of a limited resource is termed. ----- are the types of evolution 3. The deliberate management of communities and ecosystems in an attempt to regenerate historical levels of native biodiversity is known as..... 4.is the primary source of energy to all ecosystems 5. Plants which require large amount of water for growth are known as..... 7.is the process by which an organism develops an adaptation that create an entirely new species. 8.is a significant long-term increase in mean global temperatures 9. The branch of biology dealing with interactions among organisms and between organisms and their environment is called.....

11) Cells divide and reproduce in 2 ways:	and
12) At the end of Mitosis, the cytoplasm divides called	around the two new nuclei in a process
13) Meiotic division takes place in	Cell

10. In the following food chain, which organism is the secondary consumer? Grass-

rabbit-snake-hawk. A Grass B Rabbit C Snake D hawk

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The chemical bonds in DNA by which the sugar component or linked through the phosphate groups are called?	f adjacent nucleotides are	
36 The enzyme that breaks the hydrogen bonds between complen	nentary bases is called	
37) The two types of nuclei acids are	and	
38 For the codon AUG on a mRNA, the tRNA that will bind at the P	-site will carry the anticodon	
39 Given a single strand of DNA 3' CTA GCA GCT 5', what will be		
would be made from the strand?		
40 What is meant by "nonsense" codon?		
SECTION B (30 Marks)		
INSTRUCTION: ANSWER THREE QUESTIONS ONLY FRO	M THIS SECTION	
1 Differentiate between microbiome and Microbiota		••
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2) Mention three n	na or types of plant ti	ssues and their fund	tions			
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3) Distinguish	petween i) population	and community ii	food	chain and food	web	
5) Distinguish i	diween if population	and comments		1		
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