



ELIZADE UNIVERSITY,  
ILARA-MOKIN, NIGERIA

FACULTY: BASIC & APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION

2020/2021 ACADEMIC SESSION

COURSE CODE: BIO 101

COURSE TITLE: GENERAL BIOLOGY I

COURSE UNIT(S): 3 UNITS

LGff 29/03/2021

DURATION: 2 HOURS

FOD's SIGNATURE

NAME:.....

MAT. No:.....

INSTRUCTIONS:

ANSWER ALL QUESTIONS

1. a. List any 5 (FIVE) characteristics of living things

- i)-----
- ii)-----
- iii)-----
- iv)-----
- v)-----

b. Biology has two basic branches – i) ----- ii) -----

c. What is Synthetic Biology? -----

-----

d. List 2 examples of endangered plant and animal species

- i) -----
- ii)-----

e. Species become endangered for two main reasons

- i)-----
- ii)-----

2a. Genetics is a branch of biology which deals with the study of ----- and -----

b. Give the summary of Mendel's principle

- i)-----
- ii)-----
- iii)-----
- iv)-----

c. Fill in the space below in option "A to J" with appropriate answers to differentiate monocots from dicots

FEATURE	MONOCOTYLEDON	DICOTYLEDON
Cotyledons	A	2
Leaf venation	B	C
Root system	D	E
Position of Vascular bundle	Scattered	F
Number of floral parts	G	In 4's or 5's
Woody or herbaceous	I	Either

d. List 2 examples of endangered plant and animal species

i) -----

ii)-----

e. Species become endangered for two main reasons

i)-----

ii)-----

4. Briefly explain the different levels of cell organization

i)-----

ii)-----

iii)-----

iv)-----

v)-----

b. Differentiate between (i) Natural and (ii) Artificial classification

i) -----

ii) -----

c. What is Binomial Nomenclature? -----

5. With reference to temperature mention the different groups among bacteria

- i)-----
- ii)-----
- iii)-----
- iv)-----
- v)-----
- vi)-----

b. Graphically explain the phases of growth in the life cycle of a typical bacteria cell

highlight the major differences between (i) Asexual and (ii) sexual reproduction in fungi

- (i)-----  
-----  
-----  
-----  
-----  
-----
- (ii)-----  
-----  
-----  
-----  
-----  
-----

d. Explain the term (i) Virus-----and

(ii) Virion.....

e. Mention the main processes involved in a viral life cycle

i). -----

ii) -----

iii). -----

iv). -----

v). -----

6a. What is (i) Mitosis-----

-----

-----

----- and

(ii) Meiosis-----

-----

-----

-----

b. Mention the three (3) basic things that each of these two processes accomplishes

i. -----

-----

-----

ii. -----

-----

-----

iii. -----

-----

-----