



RONGO
UNIVERSITY

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OFFICE OF THE DEPUTY VICE CHANCELLOR- ACADEMICS AND STUDENTS AFFAIRS

UNIVERSITY EXAMINATIONS

2020/2021 ACADEMIC YEAR

THIRD YEAR SECOND SEMESTER REGULAR EXAMINATION

FOR

DEGREE IN BACHELOR OF SCIENCE IN BIOCHEMISTRY

COURSE CODE: BIO 211

COURSE TITLE: GENERAL BIOCHEMISTRY

DATE: 16/4/2021

TIME: 2.00 PM-5.00 PM

INSTRUCTIONS TO CANDIDATES

- Answer ALL Questions in section A and ANY OTHER TWO in SECTION B
- Do not write on the question paper
- Marks are shown at the end of each question
- Show workings in the answer booklet for award of full marks
- Mobile phones are not allowed in the examination venue
- Each question should begin on a fresh page
- Duration is 2.30 hours

THIS PAPER CONSISTS (3) PRINTED PAGES

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**2020/2021 ACADEMIC YEAR
THIRD YEAR SECOND SEMESTER EXAMINATION FOR THE DEGREE OF
BACHELOR OF SCIENCE IN BIOCHEMISTRY**

**COURSE CODE: BIO 211
COURSE TITLE: GENERAL BIOCHEMISTRY**

DURATION:

3 HOURS

INSTRUCTIONS TO CANDIDATES:

Answer ALL questions in section A and ANY OTHER TWO in section B.

Section A (40 Marks)

QUESTION ONE

List the major roles of lipids in cells.

(3 mks)

QUESTION TWO

What are cytoplasmic inclusions?

(3 mks)

QUESTION THREE

What chemical substances compose the plasma membrane?

(6 mks)

QUESTION FOUR

Describe any three trace elements and their importance.

(9 mks)

QUESTION FIVE.

Using a well sketched diagram, classify neurons.

(9 mks)

QUESTION SIX.

Describe the structure of the Red Blood Cell's cell membrane.

(10 mks)

Section B (30 Marks)

QUESTION SEVEN.

Discuss the light phase of photosynthesis.

(15 mks)

QUESTION EIGHT.

Elucidate the structure and function of the endomembrane system.

(15 mks)

QUESTION NINE.

Discuss the nitrogen cycle.

(15 mks)

Ans →