



*(University of Choice)*

**MASINDE MULIRO UNIVERSITY OF  
SCIENCE AND TECHNOLOGY  
(MMUST)**

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**MAIN EXAMINATIONS  
MAIN CAMPUS**

**THIRD YEAR SECOND SEMESTER EXAMINATIONS**

**FOR THE DEGREE  
OF  
BACHELOR OF SCIENCE IN  
BIOCHEMISTRY/BIOTECHNOLOGY/BIOLOGY**

**COURSE CODE: SZL 321**

**COURSE TITLE: ENDOCRINOLOGY**

**DATE: TUESDAY, 19<sup>TH</sup> APRIL 2022 TIME: 3:00 – 5:00 P.M.**

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**INSTRUCTIONS TO CANDIDATES**

Answer ANY FOUR questions.

TIME: 2 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over. 

SZL 321: ENDOCRINOLOGY

1. Describe pineal gland as the 'third eye'. (17.5 marks)
2. Describe the key events of hormone signalling. (17.5 marks)
3. Discuss the implications of adrenal deficiency in humans. (17.5 marks)
4. An individual is diagnosed with excessive blood levels of thyroid stimulating hormone. Discuss the possible causes, effects and therapy. (17.5 marks)
5. Describe the functional anatomy of the pituitary gland. (17.5 marks)
6. Discuss the 'jet lag' phenomenon and its significance. (17.5 marks)