



(University of Choice)

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

**UNIVERSITY EXAMINATIONS  
2021/2022 ACADEMIC YEAR**

**MAIN EXAMINATIONS  
MAIN CAMPUS**

**SECOND YEAR SECOND SEMESTER EXAMINATIONS  
FOR THE DEGREE  
OF  
BACHELOR OF SCIENCE  
IN  
BIOLOGY/BIOCHEMISTRY/BIOTECHNOLOGY**

**COURSE CODE: SZL 221**

**COURSE TITLE: BASIC IMMUNOLOGY**

**DATE: MONDAY, 25<sup>TH</sup> APRIL 2022**

**TIME: 8:00 – 10:00 A.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. 

1. Describe the various components of innate immunity. (17.5 marks)
  
2. Describe the effect of the enzymes pepsin and papain on the antibody molecule. (17.5 marks)
  
3. Discuss the interactions of cellular and humoral components in an immune response. (17.5 marks)
  
4. A class 8 pupil is bitten by a rabid dog and is therefore in danger of developing rabies. Discuss the possible lines of intervention and the possible challenges. (17.5 marks)
  
5. Compare the relative advantages of passive and active immunity. (17.5 marks)
  
6. Describe the significance of immune cells in disease diagnosis. (17.5 marks)