



KIBABII UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017 ACADEMIC YEAR (SUPPLEMENTARY/SPECIAL EXAM)

SECOND YEAR SECOND SEMESTER EXAMINATIONS

FOR THE DEGREE

BACHELOR OF EDUCATION (SCIENCE) (B. ED SCIENCE) AND BACHELOR OF SCIENCE (B. SC BIOLOGY)

COURSE CODE: SZL

SZL 222

COURSE TITLE: IMMUNOLOGY 1

DATE:

22/09/2017

TIME: 11:30 - 1:30 P.M

INSTRUCTIONS TO CANDIDATES

Answer Question ONE (Compulsory) and any other TWO questions.

TIME: 2 Hours

KIBABII observes ZERO tolerance to examination cheating

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



Question 1 (Compulsory) 30 marks

- a) State any THREE functions of complement in immune system (3 marks).
- b) Explain the role of cytokines in immunity (3 marks).
- c) Describe any THREE features of innate immunity (3 marks).
- d) Explain the advantages of live attenuated vaccines (3marks)
- e) State any three instances when heredity plays an important role in immunity (3 marks)
- f) Briefly explain the significance of breastfeeding in the neonate's development (3marks).
- g) Explain any three immunological tests that can be used to test for the presence of Salmonella typhi bacteria in a stool sample (3 marks)
- h) Explain the significance of mucus in immunity (3marks)
- i) Briefly explain the role of MHC molecules in immunity (3marks)
- j) Explain the function of dendritic cells in Immune system (3marks)

Instructions: Attempt any TWO Questions from the ones below

- 2. Write an essay on the organs of the immune system (20 marks)
- 3. Discuss how complement system will be activated via the alternate pathway on encountering extracellular bacteria (20 marks)
- 4. Grafting is an important practice in medicine Discuss the above statement pointing out various types of grafts and their fate during transplantation (20 marks)
- Using your knowledge immunology, discuss various ways of managing common pediatric diseases (20 marks)