



MACHAKOS UNIVERSITY COLLEGE

(A Constituent College of Kenyatta University)
University Examinations for 2015/2016 Academic Year

SCHOOL OF PURE AND APPLIED SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR OF
SCIENCE IN BIOLOGY

SZL 306: HUMAN BIOLOGY

DATE: 5/8/2016

TIME: 8.30-10.30 AM

INSTRUCTIONS:

ANSWER QUESTION ONE IN SECTION A AND ANY OTHER TWO QUESTIONS IN SECTION B

SECTION A. COMPULSORY

1. a) Define the following terms (4 marks)
 - i. Carcinogen
 - ii. Gender
 - iii. Sex
- b) Describe the two main body cavities (6 marks)
- c) Name two bacterial and two viral diseases of man and mention how these are combated? (4 marks)
- d) List the cause, symptoms and prophylactic measures of:
 - i. Amoebiasis (2 marks)
 - ii. Typhoid (2 marks)

- e) Differentiate between immunodeficiency and autoimmunity giving one example of each. (4 marks)
- f) What is the basis of classifying cancers? List two categories of cancers. (4 marks)
- g) Briefly describe the reproductive role of the male and female. (4 marks)

SECTION B (ANSWER ANY TWO QUESTIONS)

- 2. a) Discuss the four barriers of innate immunity (8 marks)
- b) Discuss the life cycle of the HIV virus (12 marks)
- 3. a) Discuss the medical implications of tradeoffs in human life history (10 marks)
- b) Describe the level of structural organization of the body from the micro structure to complete organism. (10 marks)
- 4. a) Describe the effects of drug and alcohol abuse to human life. (10 marks)
- b) The male's reproductive role requires four different structures. Name and briefly explain their functions. (10 marks)
- 5. Describe the stages of human development. (20 marks)