

**W1-2-60-1-6**

## JOMO KENYATTA UNIVERSITY

**OF**

**AGRICULTURE AND TECHNOLOGY**

**UNIVERSITY EXAMINATIONS 2016/2017**

**EXAMINATIONS FOR THE DEGREE OF BACHELOR OF SCIENCE**

**SZL 2101: HISTOLOGY AND CYTOLOGY**

**DATE: JUNE 2017 TIME: 2 HOURS**

INSTRUCTIONS: ANSWER QUESTION ONE (COMPULSORY) AND ANY OTHER TWO

QUESTION ONE

a) Describe briefly the classification of epithelial tissues in animals

(6 marks)

b) Explain the histological differences between the hyaline cartilage and compact bone (6 marks)

c) Describe briefly the histological structure of the skeleton muscle fibre

(6 marks)

d) Describe briefly the structure of a blood vessel wall (6 marks)

e) Describe briefly the histological structure of the skin epidermis (6 marks)

QUESTION TWO

Describe the procedure of processing a liver sample for histological examination in the laboratory (20 marks)

QUESTION THREE

Describe the criteria used in the classification of glands (20 marks)

QUESTION FOUR

Discuss the histological difference between the respiratory system and urinary system (20 marks)

QUESTION FIVE

Describe the histology of the gastrointestinal tract of mammals (20 marks)