



SOUTH EASTERN KENYA UNIVERSITY

UNIVERSITY EXAMINATIONS 2016/2017

FIRST SEMESTER EXAMINATION FOR THE DEGREE OF BACHELOR SCIENCE IN BIOLOGY & BACHELOR OF SCIENCE IN EDUCATION (BIOLOGY)

SBL 208: HISTOLOGY

13TH DECEMBER, 2016

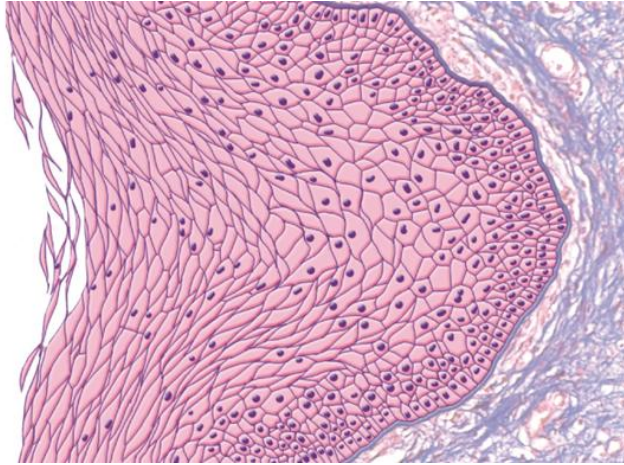
TIME: 8.00-10.00 A.M

INSTRUCTIONS TO CANDIDATES

- (a) Answer ALL questions in Section A**
- (b) Answer ANY TWO questions in Section B**
- (c) Illustrate your answers with well labeled diagrams where appropriate**

SECTION A (30 marks)

1. Describe three types of tissue sections. **(3 marks)**
2. Briefly explain the sources of tissue for histological examination. **(3 marks)**
3. State the molecules constituting the ground substance of connective tissues. **(3 marks)**
4. Using the diagram below, give:
 - (i) The name of the tissue **(1 mark)**
 - (ii) Location of the tissue **(1 mark)**
 - (iii) Function of the tissue. **(1 mark)**



5. Outline the types of neuron classification. **(3 marks)**
6. Briefly explain why people suffer from 'muscle pull' after a session of strenuous exercise. **(3 marks)**
7. Explain the role of the hormones released by enteroendocrine cells. **(4 marks)**
8. Giving examples, classify exocrine glands based on their mode of secretion. **(4 marks)**
9. Briefly explain the condition that causes rigidity in muscles of dead bodies. **(4 marks)**

SECTION B(40 marks)

10. Discuss organization, structure and function of tissues of the endocrine system. **(20 marks)**
11. Outline the steps involved in skeletal muscle contraction. **(20 marks)**
12. Describe the role of the nervous system in controlling digestive processes in the stomach. **(20 marks)**
13. Discuss epithelial tissues. **(20 marks)**