**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 TWOquestions in Section B**

**(c) Illustrate your answers with well labeled diagrams where appropriate**

**SECTION A (30 marks)**

1. Describe three types of tissue sections.

2. Briefly explain the sources of tissue for histological examination.

**(3 marks)**

**(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

(ii) Location of the tissue

(iii) Function of the tissue.

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**(1 mark)**

**(1 mark)**

**(1 mark)**

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5. Outline the types of neuron classification.

**(3 marks**)

6. Briefly explain why people suffer from ‘muscle pull’ after a session of strenuous

exercise.

7. Explain the role of the hormones released by enteroendocrine cells.

**(3 marks**)

**(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.

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**(20 marks)**

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