**JOMO KENYATTA UNIVERSITY OF AGRICULTURE ABD TECHNOLOGY**

**EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE IN ANIMAL**

**HEALTH, PRODUCTION AND PROCESSING**

**SECOND YEAR FIRST SEMESTER 2016/2017**

**AAP 2203: VETERINARY ANATOMY II**

**DATE: NOVEMBER, 2016 2 HOURS**

**SECTION A (30 MARKS)**

**Answer ALL questions in this section**

1. Define the following histological terminologies
2. Histology
3. Histochemistry
4. Immunohistochemistry
5. Microtome (8 marks)
6. List the four aims of fixation as one of the steps in tissue or specimen preparation for histology. (4 marks)
7. Enumerate the various stages of histological tissue processing (6 marks)
8. State the four basic types of body tissues (4 marks)
9. Outline the four classifications of epithelial cell based on the cell shapes (4 marks)
10. List any 4 clearing agents that can be used in tissue processing for histology (4 marks)

**SECTION B (40 MARKS)**

**Answer ANY TWO questions in this section only**

1. a) During embryonic development, there is the formation of three germ cell layers.
2. Name the three germ cell layers (6 marks)
3. The three germ cell layers form distinct organs during organogenesis. Name any two organs that are formed from each germ cell layer (9 marks)

b) Neurulation in chordates happens in 4 stages. List the stages (5 marks)

8) Discuss the five types of cells that compose the fundic glands of the digestive system (20 marks)

9) Classify the various types of connective tissues found in the mammalian body. (20 marks)