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**MAASAI MARA UNIVERSITY**

**REGULAR UNIVERSITY EXAMINATIONS**

**2016/2017 ACADEMIC YEAR**

**SCHOOL OF SCIENCE AND INFORMATION SCIENCES**

**THIRD YEAR FIRST SEMESTER EXAMINATIONS**

**FOR THE DEGREE OF BACHELOR OF EDUCATION (SCIENCE) & SCIENCE**

**COURSE CODE: ZOO 311**

**COURSE TITLE: PHYSIOLOGY AND HISTOLOGY**

**DATE:** 1/24/2017 **TIME:** 1100-1300hrs

**INSTRUCTIONS TO CANDIDATES**

1. **Answer ALL the Questions in Section A**
2. **Answer ANY TWO Questions in Section B**
3. **Illustrate your answers with well labeled diagrams where appropriate**

**SECTION A: answer ALL questions (30 marks)**

1. List three components blood tissue **(3 marks)**
2. State the role of the following structures
3. Microglia **(1 mark)**
4. Schwann cells **(2 marks)**
5. Describe the structure and function of myelin sheath **(3 marks)**
6. Explain the function of adipose tissue **(3 marks)**
7. Describe the function of smooth muscles **(3 marks)**
8. List three types of cartilage  **(3 marks)**
9. Explain the function of lymphocytes  **(3 marks)**
10. Outline the role neuroglia (glial cells) **(3 marks)**
11. State **three** locations of elastic fibers **(3 marks)**
12. List the functions of collagen **(3 marks)**

**SECTION B: ANSWER ANY TWO QUESTIONS (40 Marks)**

1. Describe the structure and function of nerve tissue **(20 marks)**
2. Discuss the structural functions of the glands of the skin **(20 marks)**
3. Describe the characteristics of the liver  **(20 marks)**
4. Describe oogenesis  **(20 marks)**