



JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY
SCHOOL OF BIOLOGICAL, PHYSICAL, MATHEMATICS AND ACTUARIAL
SCIENCES

UNIVERSITY EXAMINATION FOR THE DEGREE OF BACHELOR OF SCIENCE
IN BIOLOGICAL SCIENCES

3rd YEAR 1st SEMESTER 2022/2023 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: SBB 1311
COURSE TITLE: HISTOLOGY
EXAM VENUE: STREAM: (B.SC)
DATE: 13/12/2022 EXAM SESSION: 15.00-17.00PM
TIME: 2 HOURS

Instructions:

- 1. Answer ALL questions in Section A and Any two questions in Section B**
 - 2. Candidates are advised not to write on question paper**
 - 3. Candidates must hand in their answer booklets to the invigilator while in the examination room**
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SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1. Giving examples, explain the types of artefacts (3 marks)
2. Explain the staining of histological sections (3 marks)
3. State the characteristics of fibroblast in terms of morphology, staining properties and location (3 marks)
4. State three functions of tight junctions in tissues (3 marks)
5. Give examples of three classes of ground substances and their functions (3 marks)
6. Outline the differences among hyaline, elastic and fibrocartilage based on main features of the extracellular matrix and main functions (3 marks)
7. Explain 2 methods of bone formation and growth (3 marks)
8. Explain the differences between synarthroses and diarthrosis joints (3 marks)
9. Outline three types of muscular tissues and their functions (3 marks)
10. State three types of fibrillar collagens and their functions (3 marks)

SECTION B: ESSAY QUESTIONS (40 MARKS)

11. Giving examples, describe the morphology skin and its functions (20 marks)
12. Discuss the epithelial tissues (20 marks)
13. Describe the morphology and functions of cellular components of blood (20 marks)
14. Giving examples, describe the nervous tissue (20 marks)