

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE & TECHNOLOGY

SCHOOL OF BIOLOGICAL AND PHYSICAL SCIENCES

DEPARTMENT OF BIOLOGICAL SCIENCES

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

3rd YEAR FIRST SEMESTER 2016/2017 ACADEMIC YEAR

MAIN CAMPUS - REGULAR

COURSE CODE: SBI 3316

COURSE TITLE: HISTOLOGY

EXAM VENUE: STREAM: (BSC BIO)

DATE: EXAM SESSION:

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

SECTION A: SHORT ANSWER QUESTIONS (30 MARKS)

1. Briefly explain the principle behind Periodic Acid-Schiff (PAS) staining.	
	(3 marks)
2. Differentiate between phase-contrast and Fluorescence microsc	copy.
	(3 marks)
3. Give three examples of enzymes that can be located histochem	ically and the
specific tissues where they are found.	(3 marks)
4. Outline six functions of the basal membrane.	(3 marks)
5. Draw a labelled diagram of any three types of neurons and state	e the function
of each.	(3 marks)
6. Describe the structure of elastic tissue fibers.	(3 marks)
7. Mention and give the distinguishing characteristics of the three	types of
cartilage.	(3 marks)
8. Explain the three modes of secretion by exocrine glands.	(3 marks)
9. Draw the structure of a skeletal muscle.	(3 marks)
10. Name and give the function of any three cell-cell junctions.	(3 marks)
SECTION B: ESSAY QUESTIONS (40 MARKS)	
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