

UNIVERSITY OF SWAZILAND

MAIN EXAMINATION PAPER 2016

TITLE OF PAPER : HISTOLOGY

COURSE CODE : BIO291

TIME ALLOWED : THREE HOURS

INSTRUCTIONS :

1. ANSWER QUESTION 1 AND ANY THREE (3) OTHER QUESTIONS
2. WHEREVER POSSIBLE ILLUSTRATE YOUR ANSWERS WITH LARGE CLEARLY LABELLED DIAGRAMS

SPECIAL REQUIREMENTS: NONE

**THIS PAPER IS NOT TO BE OPENED UNTIL PERMISSION HAS BEEN
GRANTED BY THE INVIGILATORS**

QUESTION 1.

Tissue preparation is a critical part of histology. Describe in detail the steps that are involved in tissue preparation, stating the purpose and importance of each step.

(40 marks)

QUESTION 2.

Describe and discuss staining theory in histology. Your discussion should be guided by (but not limited to) the following questions:

- i. Why do any of the tissue components stain?
- ii. Why do stained components remain stained?
- iii. Why are all components not stained?

(20 marks)

QUESTION 3.

Histology plays a profound and very important role in modern medicine and other disciplines. Discuss this statement fully, detailing the importance of histology.

(20 Marks)

QUESTION 4.

Give an in-depth description of the types of epithelial cells. Your description should include sketches, location and function of the epithelial cells.

(20 marks)

QUESTIONS 5.

Describe the anatomy and function of the different types of connective tissue.

(20 Marks)