



**ELIZADE UNIVERSITY,  
ILARA-MOKIN,  
ONDO STATE**

**FACULTY: BASIC & APPLIED SCIENCES**

**DEPARTMENT: BIOLOGICAL SCIENCES**

**SECOND SEMESTER EXAMINATION**

**2015/2016 ACADEMIC SESSION**

**COURSE CODE: BIO 204**

**COURSE TITLE: Principles of Biological Techniques**

**DURATION: 1hr 30mins**

A rectangular box containing a handwritten signature in black ink.

**HOD's SIGNATURE**

**NAME:.....MAT. No:.....**

**INSTRUCTIONS**

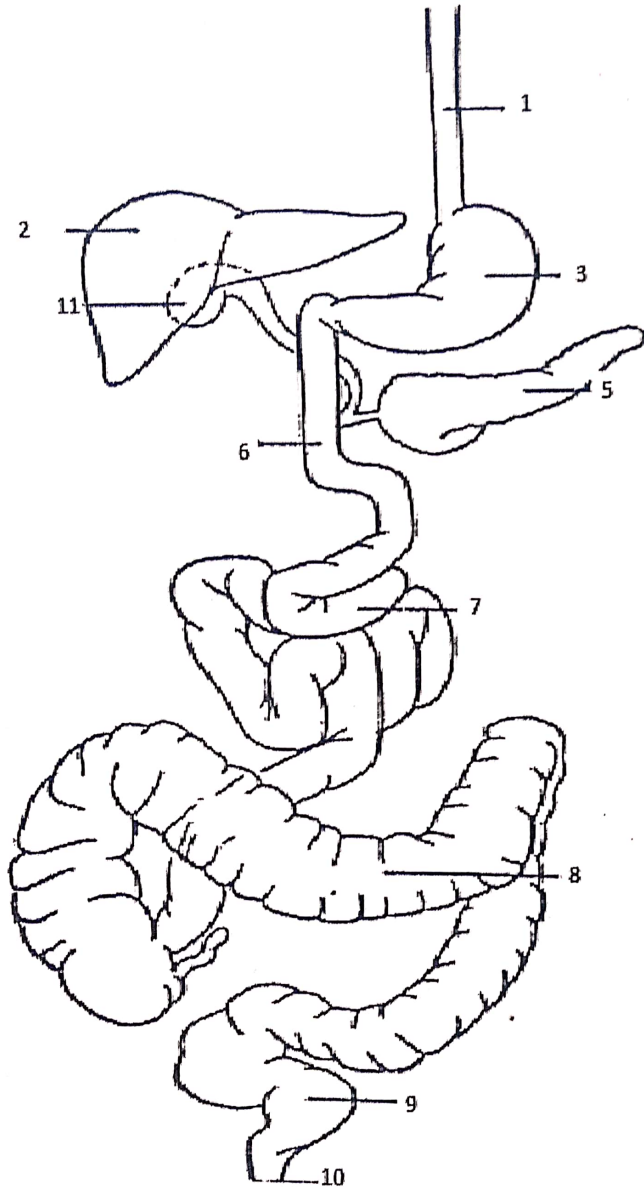
**Answer all questions in Section A and 2 questions from Section B.  
Each question carries 20 marks.**

## SECTION A

1a. Describe in writing and drawing, the required principles for making a biological diagram using a well labelled diagram of an animal cell.

b i. Identify the diagram below

ii. Identify the label part 1-10 and describe the function of any five organs in the diagram below.



c. Briefly describe a procedure for dissecting a rat using the following headings

- i. materials
- ii. methods
- iii. observations

ection B

1. Define the following terms

- i. Electrophoresis
- ii. Chromatography
- iii. Microscope resolution
- iv. Microtomy

2. a. List the **FOUR** groups of Microtome

b. Outline the features common among the **FOUR** microtomes.

c. Briefly describe the mechanism of operation of any group of the microtome mentioned in 'b'.

3. List and discuss 5 factors that influence electrophoresis.