

## FIRST SEMESTER EXAMINATION 2015/2016 SESSION

**COURSE CODE: MCB 311** 

**COURSE TITLE: GENERAL MICROBIOLOGY I (3 UNITS)** 

CLASS: 300 LEVEL TIME: 2 HOURS

## **Section A**

**Instruction:** Attempt any **two (2)** questions in this section

- 1. (a) Mention the environmental parameters that influence the growth of bacteria
  - (b) How would you classify bacterial organisms based on their optimal temperature requirements?
- 2. (a) Give the four similarities that exist between Eucaryotes and Procaryotes
  - (b) Enumerate the taxonomic categories that are used in the classification of related organisms at the different levels of similarities
- 3. What are the distinguishing features between the following organelles/processes in Protozoa:
  - (i) Macronucleus and micronucleus (ii) Holozoic and saprozoic nutrition
  - (iii) Syngamy and autogamy (iv) Budding and binary fission

## **Section B**

## Instruction: Answer All Questions in this section

- (I) Label the diagram below
- (II) What is resolution?
- (III) State three ways of attaining greater resolution
- (IV) State three methods of culturing microbes
- (V) What is a fixed mount?
- (VI) State three advantages of staining in Microbiology
- (VII) What roles do iodine and alcohol play in Gram's staining.
- (VIII) Write five (5) economic importances of bacteria.

