

## FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA SCHOOL OF LIFE SCIENCES DEPARTMENT OF MICROBIOLOGY

## FIRST SEMESTER EXAMINATION 2015/2016 SESSION

**COURSE CODE: MCB 511** 

**COURSE TITLE: PATHOGENIC BACTERIOLOGY (3 UNITS)** 

CLASS: 500 LEVEL TIME: 2 HOURS

**Instruction:** Answer 2 questions in each section

## **SECTION A**

1. Under our laboratory conditions how will you adequately distinguish *Escherichia* coli from *Klebsiella pneumoniae* and *Salmonella typhi* from *Shigella dysentariae*?

- 2. Describe the life cycle of Chlamydia and Chlamydial diseases.
- 3. Write short notes on the following:
  - (i) Milk ring test
  - (ii) Yersinia sp
  - (iii) Helicobacter pylori
  - (iv) VDRL Test

## **SECTION B**

- 4(a). Compare and contrast between Endotoxins and Exotoxins, giving examples of bacteria that produce each.
- 4(b). You are given a culture of *Staphylococcus aureus*, describe the steps you will use to identify the organism.
- 5. Discuss bacterial virulence and its role in bacterial pathogenesis
- 6. Explain the following terms
  - (i) Normal microbiota
  - (ii) Taxonomy
  - (iii) Bacterial structure
  - (iv) Haemolysis