

**FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI**  
**SCHOOL OF PHYSICAL SCIENCES**  
**DEPARTMENT OF SCIENCE LABORATORY TECHNOLOGY**

**STM 516: DIAGNOSTIC AND FORENSIC MICROBIOLOGY**

**Rain Semester Examination 2015/2016 Academic Session**

**Time allowed: 3hours**

**Date: 15/09/2016**

**Instruction: Answer Five (5) Questions Only**

- 1(a) Explain fully the meaning of Diagnostic Microbiology (10mks)
- (b) Discuss the role of Diagnostic Microbiologists in diagnostic medical microbiology (10mks)
- 2(a) What is Forensic Microbiology? (5mks)
- (b) Explain how Forensic information can be used in legal proceedings (15mks)
- 3(a) Elaborate on the general requirements for collecting and submitting specimens (15mks)
- (b) What are the major tasks of a Microbiology Laboratory (5mks)
- 4(a) List the general criteria for specimen rejection in a Microbiology Laboratory (5mks)
- (b) Explain the Kirby-Bauer method of antibiotic sensitivity testing (15mks)
- 5(a) Discuss how gram staining reaction and Ziehl-Neelsen staining can be used to identify bacteria (15mks)
- (b) List the tests involved in the IMViC series of reactions (5mks)
6. Elaborate on the aetiological diagnosis of bacterial conjunctivitis (conjunctival discharge) 20mks
7. Discuss the etiological diagnosis of bacterial urinary tract infection (20mks)

**GOOD LUCK**