FEDERAL UNIVERSITY OF TECHNOLOGY, OWERRI.
SCHOOL OF SCIENCE
DEPARTMENT OF SCIENCE LABORATORY TECHNOLOGY
HARMATTAN SEMESTER 2014/2015 TEST

STM 301: BACTERIOLOGY
INSTRUCTION: ANSWER ALL QUESTION
TIME: 30 mins

1. State two slide techniques used in motility test.
2. Name the mordant used in Gram staining.
3. Name two acid fast bacteria.
4. What is the primary stain used in Ziehl-Neelsen staining method?
5. Why are *Mycobacterium* species called acid fast?
6. List the different bacterial classification schemes that have evolved over the years.
7. State the two properties used in the identification and classification of bacteria.
8. Define the term "Nomenclature"
9. Polyacrylamide gel electrophoresis (PAGE) separates proteins on the basis of ----------
10. Mention the two mechanisms of energy conversion in bacteria.
11. Mention the characteristics and properties of Mycoplasma.
12. State two differences between Gram positive and Gram negative bacteria.
13. What is a plasmid?
14. Define the following; a) F – plasmid, b) R – plasmid.
15. Mention two economic importance of bacteria.
16. State the Germ theory of disease.
17. Mention two shortcomings associated with Koch's postulates.

State the functions and chemical compositions of the following bacterial components;

a) Cell wall -----18-----, b) Outer membrane ------19----------, c) Capsule -----20--------