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OLABISI ONABANJO UNIVERSITY

DEPARTMENT OF MICROBIOLOGY, AGO-IWOYE

2014/2015 HARMATTAN SEMESTER EXAMINATION

COURSE: BACTERIOLOGY **CODE: MCB 315**

INSTRUCTION: Answer one question from each section. Section A is compulsory. **Time: 1hr 30mins**

SECTION A

1a. Describe extensively on a test to differentiate ***Streptococcus pneumoniae*** from other alpha-haemolytic Streptococci.

b. Explain how you would identify Psuedomonas, Neisseria, Brucella and Pasteurella species using a biochemical test.

c. What is the principle behind the Indole test?

SECTION B

2a. Define "bacteria" as far as you can.

b. "Bacteria are recognized based on their shape", discuss. (Diagrams are important)

3a. Describe any **three** methods that can be used to preserve pure cultures in a Microbiology laboratory in detail.

b. In a tabular form, give at least two materials that can be sterilized using the following methods:

i. Incineration

ii. Moist heat

iii. U/V light

iv. Red heat

v. Hot air oven

SECTION C

4. Distinguish between the following nutritional types of bacteria

i. Aerobic rods and cocci

ii. Facultative anaerobic cocci

5a. Highlight five characteristic features of mycoplasma.

b. Describe the laboratory preparation of L-forms.

they lack cell wall
they have triple layer membrane
the cell membrane is fragile
they are pleomorphic