



FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA
SCHOOL OF LIFE SCIENCES
DEPARTMENT OF MICROBIOLOGY
FIRST SEMESTER EXAMINATIONS, 2018/2019 SESSION
COURSE TITLE: PATHOGENIC BACTERIOLOGY
COURSE CODE: MCB 511 (3 UNITS)

Instruction: Answer five (5) questions in all, at least two questions from each section

Time: 2½ Hours

SECTION A

1. In a tabular form, compare and contrast endotoxins and exotoxins giving specific example of each.
2. Mention any two Koch's postulates and explain their validity with respect to modern microbiological realities.
- 3(a). Draw a representative diagram of a bacterial cell and label appropriately.
- 3(b). Explain opportunistic infections and give two examples.
4. Write a short note on the genus '*Staphylococcus*'

SECTION B

1. Discuss the process of bacterial pathogenesis.
2. Discuss the various types of virulence factors.
3. Discuss briefly the following terms:
 - (i) Infectivity.
 - (ii) Invasiveness.
 - (iii) Reservoir host.
 - (iv) Lethal dose 50 (LD₅₀).
 - (v) Pathogenicity island.
 - (vi) Final host.