



CRAWFORD UNIVERSITY
FAITH CITY, IGBESA, OGUN STATE

2023/2024 HARMATTAN EXAMINATIONS

COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

PROGRAMME: MICROBIOLOGY

COURSE TITLE: GENERAL MICROBIOLOGY.

INSTRUCTION: ANSWER ANY FIVE QUESTIONS

COURSE CODE: MCB 201

COURSE UNIT: 3

TIME ALLOWED: 2^{1/2} HRS

1. Write an essay on the classification of bacteria. (12mks)
- 2.a. What are prokaryotic cells? (1mk)
 - b. List six (6) differences between eukaryotic and prokaryotic cells. (3marks)
 - b. Write short notes on the following;
 - i. shape of bacterial cell
 - ii. Arrangements of bacterial cell
 - iii. reproduction in bacteria
 - iv. Spore formation in bacteria (8marks)
3. a. What is a virus? (1mark)
 - b. List any six (6) characteristics of viruses (3marks)
 - c. Draw a well labeled diagram of T-even bacteriophage and state the functions of any four labeled parts. (8marks)
4. Write an essay on microbes as bio-control agents. (12mks)
- 5 a. What is microbial genetics? (1mark)
 - b. List and explain the five (5) stages of viral replication. (5marks)
 - c. Write short notes on the following;
 - i. Taxonomy
 - ii. Classification
 - iii. Nomenclature (6mks)
- 6.a. Draw a well labeled diagram of a bacterial cell. (2mks)
 - b. List and state a function of any six (6) organelles in a prokaryotic cell. (6marks)
 - c. Differentiate between gram positive and gram negative bacteria. (4marks)
7. a. List and explain the four (4) classes of fungi. (4marks)
 - b. Write short notes on the following;
 - i. growth of fungi
 - ii. Sexual reproduction in fungi
 - iii. Asexual reproduction in fungi
 - iv. Nutrition in Fungi. (8marks)