



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE

2022/2023 HARMATTAN SEMESTER 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 HRS

1. 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)
2. a. List four (4) differences between eukaryotic and prokaryotic cells. (4marks)
b. Write short notes on the following features used in the classification of bacteria;
i. shape of bacterial cell ii. Composition of cell wall iii. Mode of respiration iv. Mode of nutrition
(8marks)
3. Write an essay on microbes as bio-control agents. (12mks)
- 4 a. What is microbial variation? (1mark)
b. Describe the shapes of virus capsids (3marks)
c. Write short notes on the following;
i. Taxonomy ii. Classification iii. Nomenclature iv. systematics (8mks)
5. a. What is a virus? (2marks)
b. List and explain the five (5) stages of viral replication. (5marks)
c. Draw a well labeled diagram of T-even bacteriophage and state the functions of any four labeled parts. (5marks)
6. 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)
7. Write an essay on the beneficial effects of bacteria in industries. (12mks)