



CRAWFORD UNIVERSITY

FAITH CITY, IGBESA, OGUN STATE

2020/2021 HARMATTAN SEMESTER EXAMINATIONS

COLLEGE: NATURAL AND APPLIED SCIENCES

DEPARTMENT: BIOLOGICAL SCIENCES

PROGRAMME: MICROBIOLOGY

COURSE CODE: MCB 307

COURSE TITLE: IMMUNOLOGY

COURSE UNIT: 3

ALLOWED: 2 HOURS 30MINUTES

INSTRUCTION: ANSWER QUESTIONS ONE (1) AND TWO (2) WITH ANY OTHER THREE (3).

1. Discuss Innate Immunity identifying each component and roles played. 15 marks

- 2a. Explain the process of antigen presentation to T cells and its outcome.

- b. What properties qualify an antigen as an immunogen? 15 marks

- 3a. The interaction between antigens and specific antibodies leads to pathogen destruction. What is the phenomenon called and how is this achieved?

- b. In what other ways could this phenomenon be generated? 10 marks

4. What are antibodies and how are they different from one another? 10marks

5. Define the role of immune memory and explain how the production of memory cells might benefit the host in the long term. Is immune memory a desirable trait for innate immunity and why? 10 marks

6. Briefly discuss five methods of detecting antigen-antibody reactions in the laboratory. 10 marks

7. The immune system is intended for the protection of the body, but there are cases where the immune system causes harm to the body it is supposed to protect. Name and discuss the phenomenon in details. 10 marks