



**DEPARTMENT OF PUBLIC HEALTH,
FACULTY OF BASIC HEALTH SCIENCES,
NATIONAL OPEN UNIVERSITY OF NIGERIA, ABUJA
2024_2 EXAMINATION.**

PROGRAMME: MSc. PUBLIC HEALTH

COURSE CODE: PHS818

COURSE TITLE: PUBLIC HEALTH MICROBIOLOGY AND ENTOMOLOGY

CREDIT UNITS: 2

TIME ALLOWED: 2 HOURS

ANSWER ALL QUESTIONS

SCORE = 70 MARKS

Q1a. How would define bacterial growth?

Q1b. Describe the bacterial growth curve. Add a note on the method for measuring bacterial growth in a liquid culture.

Q1c. Discuss the classification of bacteria on the basis of oxygen, pH, and temperature requirement

Q2a. Broadly discuss five ways in which chemotherapeutic agent kill or damage bacterial pathogens

Q2b. Would there be any advantage to administering bacteriostatic agent with penicillin. Any disadvantage?

Q3. Write in details on the Hepatitis B infection under the following headings:

- (i) Structure of the etiologic agent (ii) causes and risk factors (iii) sign and symptom (iv) laboratory diagnosis (v) Treatment (vi) prevention and control

Q4. Explain in details on the etiologic agent, mode of transmission, clinical manifestation, sign and symptom laboratory diagnosis, treatment and prevention of the following fungal infections:

- (i) Candidiasis (ii) Aspergillosis