



**DEPARTMENT OF PUBLIC HEALTH,
FACULTY OF BASIC HEALTH SCIENCES,
NATIONAL OPEN UNIVERSITY OF NIGERIA, ABUJA
2023_2 EXAMINATIONS_**

PROGRAMME: MSc. PUBLIC HEALTH

COURSE CODE: PHS818

COURSE TITLE: HEALTH MICROBIOLOGY AND ENTOMOLOGY

CREDIT UNITS: 2

TIME ALLOWED: 2 HOURS

ATTEMPT ALL QUESTIONS

SCORE = 70 MARKS

Q1a. What do you understand by bacterial cell envelop?

Q1b. With the aid of well labelled diagram, describe the type of cell envelop possessed by Gram-positive and Gram-negative bacteria.

Q1c. Explain the principle, procedure and application of Gram staining.

Q2a. Describe how antibody is formed?

Q2b. Discuss in general the various antigen-antibody reaction test.

Q3. Elucidate on the etiologic agent, mode of transmission, clinical manifestation, sign and symptom laboratory diagnosis, treatment and prevention of the following fungal infections:

- (i) Chromoblastomycosis (ii) Mucormycosis

Q4. Fully describe the HIV 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