



NATIONAL OPEN UNIVERSITY OF NIGERIA
UNIVERSITY VILLAGE, PLOT 91, CADASTRAL ZONE
NNAMDI AZIKIWE EXPRESS WAY, JABI, ABUJA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PUBLIC HEALTH SCIENCE
2022_2 EXAMINATION

COURSE TITLE: PUBLIC HEALTH MICROBIOLOGY & ENTOMOLOGY

COURSE CODE: PHS818

COURSE UNITS: 2Units

TIME ALLOWED: 1½ Hours

TOTAL MARKS: 70%

INSTRUCTION: Answer all the Questions

QUESTION 1 25marks

Q1a. Discuss *Mycobacterium tuberculosis* under:

- (i) Epidemiology (5Marks)
- (ii) Symptoms (5marks)

(1b) List five medical conditions that lead to a weakened immune system and therefore predispose people to overt tuberculosis disease. (5marks)

(1c). In your own words, fully describe the medical importance of *Mycobacterium leprae*. (10marks)

QUESTION 2 25marks

Q2a. Concisely describe step 1 in diagnostic isolation and identification of bacteria. (5 Marks)

b. There is a considerable diversity even within a species, hence, describe "Molecular analysis" as one of the methods in taxonomic characterization of bacteria . (20 Marks)

QUESTION 3 20marks

Q3a. Discuss Whooping cough under:

- (i) Epidemiology and Symptoms (10Marks)
- (ii) Prevention and Treatment (5marks)

b. Write short note on the pathogenesis of *Haemophilus influenza* (5 Marks)

