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## 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 2021 2 EXAMINATION

**COURSE TITLE: PUBLIC HEALTH MICROBIOLOGY** 

COURSE CODE: PHS818 COURSE UNITS: 2 Units TIME ALLOWED: 1<sup>1</sup>/<sub>2</sub> Hours

**TOTAL MARKS: 70%** 

**INSTRUCTION:** Answer all the Questions

#### **QUESTION 1** 25marks

Q1a. Graphically describe the relationship between Archaea and Eukaryotes linking them to Eubacteria Kingdom. (20marks)

1b. Pili are synonymous to Fimbriae. Based on this statement of fact, briefly explain the word Fimbriae. (5marks)

### QUESTION 2 25marks

Q2a. Brucella genus is described as a Zoonosis, gram negative and non-motile coccobacilli. Discuss the genus under:

- (I) Epidemiology (10 Marks)
- (ii) Pathogenesis (5marks)
- (iii) Highlights five ways of contracting Brucella infection (5marks)
- b. Write short note on the Prevention and treatment of Plague (5 Marks)

#### QUESTION 3 20marks

Q3a. Write short notes on

- (i) Salmonellosis. (5Marks)
- (ii) Entheropathogenic E,coli (EPEC) (5marks)
- (iii) Helicobacter pylori (H.pylori) (5marks)
- b. Briefly describe Yersinia pseudotuberculosis (5 Marks)