

NATIONAL OPEN UNIVERSITY 0F NIGERIA University Village, Plot 91, Cadastral Zone, Nnamdi Azikiwe Express Way, Jabi, Abuja FACULTY OF HEALTH SCIENCES DEPARTMENT OF PUBLIC HEALTH SCIENCE 2020_1 EXAMINATIONS

COURSE TITLE: Research Methods in Public Health (PHS421)

UNITS: 3 Units

TIME ALLOWED: 2 Hours

Total Score: 70 %

INSTRUCTION: Answer all Questions

QUESTION 1 (20 marks)

Calculate the sample size for a study on Corona virus epidemics in China, given that the prevalence rate of Corona virus is 5% and the allowable error is 10%. (20 marks)

QUESTION 2 (15 marks)

The research process consists of a series of related activities that must be followed to achieve a targeted purpose. Explain the following listed terms in the context of research process:

2a). Research problem	(5 marks)
2b). Hypothesis	(5 marks)
2c). Sampling design	(5 marks)

QUESTION 3 (20 marks)

Within the contest of Public Health research:

3a). State five (5)	significance of public health research.	(10 marks)
3b). Give five (5)	major general objectives of the research.	(5 marks)
3c). List five (5)	techniques involved in defining a research problem.	(5 marks)

QUESTION 4 (15 marks)

Clearly differentiate the following types of sampling procedure

4a). Simple random & Systematic sampling	(5 marks)
4b). Cluster sampling and Stratified sampling	(5 marks)
4c). Multiphase and Multistage sampling	(5 marks)