

# 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 EXAMINATION

**COURSE TITLE:** Principles of Epidemiology (PHS318)

**UNITS:** 3 Units

**TIME ALLOWED:** 2 Hours

**Total Score:** 70 %

**INSTRUCTION**: Answer all Questions

### **QUESTION 1** 18 marks

1a). John Snow is referred to as the father of epidemiology; briefly describe his	
contribution to curbing of disease in human population.	<b>(10 marks)</b>
1b). Give a detailed definition of epidemiology according to J. M. Last.	(2 marks)
1c). What are the 3 major components common to the definition of epidemiology	
and the 3 major questions asked in Epidemiology?	(6marks)

# QUESTION 2 22 marks

2a). Describe quantitatively the meaning of person, place and time in the context	
of descriptive epidemiology.	(12 marks)
2b). Concisely write on the types of epidemiological study designs.	<b>(10 marks)</b>

# QUESTION 3 15 marks

3a). Write short note on analytical epidemiology.	(10marks)
3b). How does analytical epidemiology differ from experimental studies?	(5marks)

### **OUESTION 4** 15 marks

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With the aid of a mathematical formula express the definition of the following:	
4a) Incidence rate	(7 marks)
4b) Prevalence rate	(8 marks)