



**FEDERAL UNIVERSITY OF TECHNOLOGY, MINNA  
SCHOOL OF NATURAL AND APPLIED SCIENCES  
DEPARTMENT OF MICROBIOLOGY**

**FIRST SEMESTER EXAMINATION 2013/2014 SESSION**

**COURSE CODE: MCB414 (3 CREDITS)**

**COURSE TITLE: PRINCIPLES OF EPIDEMIOLOGY AND PUBLIC HEALTH**

**CLASS: 400 LEVEL**

**TIME ALLOWED: 2hrs**

**INSTRUCTION:** Answer any **FOUR** questions

1. Discuss the different types of epidemics, stressing the factors that play a role in each type.
2. Define epidemiology. Describe the types of epidemiologic investigations.
3. Discuss the reservoir of human infections
4. Write notes on:
  - i. Endemic and pandemic infections
  - ii. Zoonoses
  - iii. Herd immunity
  - iv. Sources of infection
5. Write an essay on epidemiologic triangle.
  - (a) Describe different scales used in epidemiology.
  - (b) Differentiate between incidence rate and prevalence rate.
  - (c) Two surveys were done of the same Bosso community 6 months apart. Out of 10,000 people surveyed the first time, 30 had typhoid fever. Six months later, 50 had typhoid fever including the original 30. Calculate the prevalence at the second survey and compare the prevalence with the 6 months incidence.