

JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

SCHOOL OF HEALTH SCIENCES

UNIVERSITY EXAMINATION FOR BACHELOR IN COMMUNITY HEALTH AND DEVELOPMENT

3rd YEAR 1st SEMESTER 2013/2014 ACADEMIC YEAR

CENTER: BUSIA

COURSE CODE: HPD 3311

COURSE TITLE: CONTROL AND PREVENTION OF COMMUNICABLE AND NON-COMMUNICABLE

DISEASES

EXAM VENUE: STREAM:

DATE: EXAM SESSION:

Instructions:

- 1. Answer ALL questions in Section A and ANY other 2 questions in Section B.
- 2. Candidates are advised not to write on the question paper.
- 3. Candidates must hand in their answer booklets to the invigilator while in the examination room.

SECTION A – Answer all questions – (30 marks)

- 1. Distinguish the usage of the following terms in disease control and prevention using appropriate example for each cases[3 marks]
 - a. Communicable diseases
 - b. Contagious diseases
 - c. Non-communicable diseases
- 2. Briefly explain the following characteristics used to describe a causative agent according to the various outcomes they present after exposure to a susceptible host [3 marks]
 - a. Infectivity
 - b. Pathogenicity
 - c. Virulence
 - d. Antigenicity
- 3. List **at least 6 tools** that are available for the states for control and prevention of infectious diseases? [3 marks]
- 4. A patient can present with one of the following; please demonstrate that you understand how to differentiate the three in knowledge of natural history and spectrum of disease? [3 marks]
 - a. Signs
 - b. Symptoms
 - c. Syndromes [3 marks]
- 5. With examples, briefly describe the concept of "**Iceberg of Disease**" in control and prevention of diseases[3 marks]
- 6. An infectious agent may be transmitted from its natural reservoir to a susceptible host through different ways, name **TWO major mode of transmission** as you briefly identify the further classification in each giving relevant examples of each [3 marks]
- 7. Define **a disease carrier** as you list 5 reasons why they are dangerous to public health disease control and prevention [3 marks]
- 8. Briefly explain the difference between **Sufficient component** and **Necessary component** in Component causes and causal pies model by Ken Rothman in 1976 [3 marks]
- 9. Identify **6 pre-disposing** factors of **Diabetes Mellitus (DM)** [3 marks]
- 10. State at least 2 example of each mention level of prevention for Coronary Heart Diseases below[3 marks]
 - a. Primary prevention for CHD
 - b. Secondary prevention for CHD
 - c. Tertiary prevention for CHD

SECTION B – Essay Answer Question

- 1. This section has four (4) essay question
- 2. Answer any 2 questions
- 1.
- a. Define **elaborately** the concept "Chain of infection" as used in control and prevention of infectious diseases [5 marks]
- b. Discuss the **six requisites (essentials) of a chain of infection** for the perpetuation of communicable diseases giving relevant examples [15 marks]
- 2.
- a. Differentiate between the following type of infections giving example of each [6 marks]
 - i. Nosocomial infection
 - ii. Zoonotic infection
 - iii. Emerging infection
- b. Discuss the concept of **epidemiological transition** [14 marks]
- 3. A variety of models of disease causation have been proposed to explain why "disease does not just occur random" name two model you know of and discuss one of them using one disease as an example [20 marks]
- 4.
- a. Distinguish between **Disease Prevention and Disease Control** giving examples of each [3 marks]
- b. Distinguish between **Disease Elimination and Disease Eradication** giving examples of each [3 marks]
- c. With examples, describe **four main level of prevention** in epidemiology [14 marks]

Good luck!