JARAMOGI OGINGA ODINGA UNIVERSITY OF SCIENCE AND TECHNOLOGY

KISII LEARNING CENTRE

HDC2122: INTRODUCTION TO EPIDEMIOLOGY

END OF SEMESTER EXAMINATION

SECTION A

All questions in this section are compulsory 30marks

1. Define the following terms

6marks

- a) Public health
- b) Epidemiology
- c) Re-emerging infections
- 2. Distinguish between the following terms

8marks

- a) Common source epidemic vs. propagated epidemic
- b) Infant mortality rate vs. child mortality rate
- c) Latent period vs. symptomatic period
- d) Herd immunity vs. acquired immunity
- 3. Briefly explain the contribution of the following individuals to the field of epidemiology 8marks

3marks

- a) Hippocrates
- b) Robert Koch
- c) John Snow
- d) John Graunt
- 4. State the purpose and uses of epidemiology 5marks
- 5. Draw the epidemiological triangle

SECTION B

Answer any two questions

- 1. a) State five approaches necessary for disease prevention 10marks
 - b) State four sources of epidemiological data and briefly discuss the advantages and disadvantages of each 10marks
- 2. a)Define screening 2marks
 - b) Define validity of a screening test 2marks
 - c) Outline three principles of a screening program 6marks

- d) State the characteristics of a good screening test 10marks
- 3. a) Define non-communicable disease 2marks
 - b) Define a risk factor giving example of risk factors of one non communicable disease 3marks
 - c) As a public health officer, outline measures you can put in place to prevent lung cancer 10marks
 - d) Why should diseases be prevented 5marks
- 4. Discuss the socio-economic factors that facilitate the transmission of HIV/AIDS