



**UNIVERSITY OF SWAZILAND**  
**Faculty of Health Sciences**  
**DEGREE IN ENVIRONMENTAL HEALTH**  
**FINAL EXAMINATION PAPER 2009**

**TITLE OF PAPER** : **COMMUNICABLE DISEASES CONTROL**

**COURSE CODE** : **HSC 311**

**DURATION** : **2 HOURS**

**MARKS** : **100**

**INSTRUCTIONS** :

- READ THE QUESTIONS & INSTRUCTIONS CAREFULLY**
- ANSWER ANY FOUR QUESTIONS**
- EACH QUESTION CARRIES 25 MARKS.**
- WRITE NEATLY & CLEARLY**
- NO PAPER SHOULD BE BROUGHT INTO NOR OUT OF THE EXAMINATION ROOM.**
- BEGIN EACH QUESTION ON A SEPARATE SHEET OF PAPER.**

**DO NOT OPEN THIS QUESTION PAPER UNTIL PERMISSION IS GRANTED BY THE INVIGILATOR.**

### ***QUESTION 1***

- a. **Direct transmission** includes which of the following modes of transmission? (Circle ALL those apply). **(5marks)**
- A. Droplet spread
  - B. Vehicleborne transmission
  - C. Vectorborne transmission
  - D. Airborne transmission
- b. Discuss FIVE Factors that influence the transmission and impact of communicable diseases. **(15 marks)**
- c. Describe what is a zoonotic disease is. **(5 marks)**

### ***QUESTION 2***

- a. The questions below describe the case-report pattern of disease X for three communities. The communities have the same size population. Identify which term A-D below best describes the occurrence of disease X in the communities. **(15 marks)**
- A. Endemic
  - B. Epidemic
  - C. Hyper-endemic
  - D. Pandemic
- (i) \_\_\_\_ Community A: usually 10 cases/week; last week, 28 cases
- (ii) \_\_\_\_ Community B: 50-70 cases/week; last week, 55 cases
- (iii) \_\_\_\_ Community C: usually 25 cases/week; last week, 28 cases
- b. Describe the TWO common classifications of diseases and give examples. **(10 marks)**

### ***QUESTION 3***

Define, discuss and give an example for the following terms **(25 marks)**

- a. Herd immunity
- b. Incubation period
- c. Droplet spread
- d. Indirect transmission
- e. Asymptomatic career

#### QUESTION 4

Discuss in detail the following on Tuberculosis. (25 marks)

- a. Infectious/causative agent
- b. Mode of transmission
- c. Susceptibility and resistance
- d. Methods of prevention and control
- e. Treatment

#### QUESTION 5

Fill the missing in the table below: (15 marks)

Name of disease in man	Infectious agent	Mode of transmission	Occurrence
a.	<i>Chlostridium botulinum</i>	b.	c.
d.	<i>Lyssa virus – Rhabdovirus</i>	e.	f.
Malaria	g.	h.	i.
j.	<i>Varicella-zoster virus</i>	k.	l.
AIDS	m.	n.	o.

p. Discuss the two major types of infectious diseases which can develop into epidemics and give examples? (10 marks)