

## **BMI2602**

May/June 2015

## **MEDICAL EPIDEMIOLOGY**

Duration

2 Hours

100 Marks

EXAMINERS

FIRST SECOND PROF J DEWAR DR S GILDENHUYS

## Closed book examination

This examination question paper remains the property of the University of South Africa and may not be removed from the examination venue.

This paper consists of 2 pages

ANSWER FIVE (5) OF THE EIGHT (8) QUESTIONS

Students must answer the questions in the examination answer book provided.

Dear student, take a deep breath, exhale and relax. Now you are ready to start answering the questions. All the best!

QUESTION 1		[20]
Discuss in detail the important questions asked and the steps taken when investigating a disease outbreak		
QUEST	TION 2	[20]
21	Discuss active and passive disease surveillance and its importance	(10)
2 2	Describe the various measures of morbidity including incidence, prevalence and attack rate	(10)
QUEST	TION 3	[20]
Discus	s the importance of this module (BMI2602) within the South African context	
QUEST	FION 4	[20]
41	Explain the consequences of false positive and false negative test results	(10)
4 2	Discuss the validity and reliability of diagnostic tests	(10)
QUEST	FION 5	[20]
Provid	le a labeled diagram illustrating the phases in the natural history of disease in a patient. In addition,	
discus	s why quantification of prognosis is important and describe in detail four ways of expressing progno	SIS
QUEST	FION 6	[20]
Descri	be in detail the phases involved in testing new drugs	
QUEST	TION 7	[20]
Discus	s the role that genetic and environmental factors play in the development of disease	
QUESTION 8		[20]
Using	the recent Ebola virus outbreak as an example, discuss the following epidemiological terms	
7 1	Epidemic and endemic diseases	(5)
7 2	Re-emerging and global diseases	(5)
73	Statistical measurement of epidemics	(5)
74	Nosocomial infections and herd immunity	(5)

TOTAL MARKS 100