

MACHAKOS UNIVERSITY

University Examinations for 2020/2021

SCHOOL OF HEALTH SCIENCES

DEPARTMENT OF PUBLIC AND COMMUNITY HEALTH

THIRD YEAR FIRST SEMESTER EXAMINATION FOR

BACHELOR OF PUBLIC HEALTH

HPH 306: COMMUNICABLE DISEASES

DATE: 12/8/2021

TIME: 2:00 – 4:00 PM

INSTRUCTIONS: This paper consists of two sections A and B

SECTION A

Specific Instructions

- This section has one question
- The question is COMPULSORY
- The question is 30 Marks

QUESTION ONE (COMPULSORY) (30 MARKS)

- a) Identify two (2) conditions that develop due to poor personal hygiene (2 marks)
- b) *Mycobacterium bovis* can be transmitted from cattle to humans in raw milk and cause a type of tuberculosis. In this example, identify the infectious agent, the infected host and the reservoir

(3 marks)

- c) In a certain rainy season, a doctor diagnosed malaria in several people who came seeking treatment. Which factor in the chain of disease transmission was targeted with each of the measures (3 marks)
 - i) Treated each patient with the appropriate drug.
 - ii) Mobilized the community to eradicate breeding sites of mosquitoes
 - iii) Gave health education on the proper use of bed nets.
- d) Highlight the challenges faced by people seeking screening and treatment for STIs in kenya (3 marks)

e)	Differentiate	
	i) Isolation and Quarantine	(2 marks)
	ii) Cleaning and Sanitizing	(2 marks)
f)	Explain how severity of malaria is dependent on the species of plasmodium	
		(3 marks)
g)	Explain prevention strategies of hepatitis A, hepatitis B and hepatitis C	
		(3 marks)
h)	entify Kenyan systems that can be used to detect and characterize disease out breaks	
		(3 marks)
i)	Explain how presence of HIV can increase the risk of transmission of other ST	Is and vice
	versa	(3 marks)
j)	Explain the physical diagnosis for amoebic dysentery	(3 marks)
k)	Identify two childhood diseases that are immunizable at six (6), ten (10) and for	ourteen (14)
	weeks	(2 marks)

SECTION B:

Specific Instructions

- This section has four (4) questions
- Answer any two (2) questions

Each question is 20 Marks

QUESTION TWO (20 MARKS)

- a) Despite public health efforts, HIV/AIDS is still a significant cause of morbidity and mortality worldwide. Discuss (10 marks)
- b) After visits and examination by a doctor Grace was diagnosed with cholera. Discuss the signs and symptoms she may have exhibited (10 marks)

QUESTION THREE (20 MARKS)

a)	Explain the importance of interprofessional team strategies to aid in diagnos	is, treatment
	and prevention of dengue fever.	(10 marks)
b)	Discuss the various public health measures on place to eliminate	
	i) Malaria	(5 marks)
	ii) Tuberculosis	(5 marks)

QUESTION FOUR (20 MARKS)

a)	Discuss the limitations in case identification and contact tracing influencing s	s the limitations in case identification and contact tracing influencing spread of	
	covid-19	(10 marks)	
b)	Describe the lifecycle of Schistosoma worms in the human boby	(10 marks)	

QUESTION FIVE (20 MARKS)

- a) Describe the precaution measures by health care personnel when handling infectious dead bodies (10 marks)
- b) In reference to a relevant example, explain the three levels of disease prevention.

(10 marks)