

W1-2-60-1-6

JOMO KENYATTA UNIVERSITY OF AGRICULTURE AND TECHNOLOGY UNIVERSITY EXAMINATIONS 2022/2023 EXAMINATION FOR THE DEGREE OF MASTER OF SCIENCE MEDICAL MICROBIOLOGY

TMM 3100: PATHOGENIC MICROBIOLOGY I

DATE: AUGUST, 2023

Answer Any FOUR Questions (25 Marks each)

TIME: 3 HOURS

1.List one contribution for each of the following men to microbiology. (25 marks)

2.5 marks for each

a) Louis Pasteur

INSTRUCTIONS:

b) Robert Koch

c)Sir Alexander Fleming

d)Illya Metchnikoff

e) Gerhardt Domagk

f)Antoni Van Leeuwenhoek

g)Ferdinand Cohn

h)Frederick Twort

i) Elie Metchnikoff

i) Howard Temin

- 2.Describe the six pathotypes of E. coli, and the virulence factors that play major role in human diseases. (25 marks)
- 3. Explain in detail why antimicrobial susceptibility tests should be performed on all staplococci from infections. (25 marks)
- 4. Describe the major differences between prokaryotic and eukaryotic cells. (25 marks)
- 5.Differentiate between trophozoites and cysts of the major intestinal protozoal parasites. (25 marks)
- 6.Describe the method of collecting blood for culture. (25 marks)