

# MASINDEMULIROUNIVERSITY OF SCIENCE AND TECHNOLOGY (MMUST)

#### MAIN CAMPUS

## UNIVERSITY EXAMINATIONS 2021/2022 ACADEMIC YEAR

### SEMESTER ONE EXAMINATIONS

FOR THE DEGREE OF MASTER OF SCIENCE IN MEDICAL PARASITOLOGY

COURSE CODE:

SZL 813

COURSE TITLE:

PARASITOLOGICAL TECHNIQUES AND

DIAGNOSTICS

DATE: TUESDAY, 1 1TH JANUARY 2022

TIME: 8:00 - 11:00 A.M.

#### INSTRUCTIONS TO CANDIDATES

Answer ANY FOUR (4) questions.

TIME: 3 Hours

MMUST observes ZERO tolerance to examination cheating

This Paper Consists of 2 Printed Pages. Please Turn Over.

- 1. There is breakout of diarrhoea in the Kakamega County. You have been requested to assist to carry out investigation on the possible cause which is suspected to be a protozoan parasite. Give details of the requirements you need and the detailed procedures you will perform for proper diagnosis (15 marks)
- 2. Give an account of the concentration techniques for stool samples (15 marks)
- 3. Microscopy remains to be the gold standard for diagnosis of parasitic diseases. Discuss the pros and cons of this technique (15 marks)
- 4. Your project is interested in identifying the different species of *Plasmodium* present in a school in Kisumu. Design a PCR based experiment that will allow you to carry out the investigation at a minimal cost (15 marks)
- 5. Give an account of the principles of good laboratory practice (GLP) (15 marks)