

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES DEPARTMENT OF MEDICAL SCIENCES UNIVERSITY EXAMINATION FOR:

MSC

5113: MOLECULA PARASITOLOGY END OF SEMESTER EXAMINATION

SERIES:APRIL2016

TIME:2HOURS

DATE:16Apr2016

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of FIVEQuestion(s). Attemptany THREE questions. Do not write on the question paper.

Question ONEDescribe the pathogenesis of African Trypanomiasis

Question TWO) a)Discuss the differences in pathology between the Rhodesian disease and the Gambian disease?

- b) What is the first symptom of infection with African trypanosomes?
- c) Why is it important to treat the disease prior to entry of the parasites into the CNS?
- d) Which type of trypanosomiasis would be difficult to diagnose early enough?
- d)Explain the phenomenon winterbottoms sign

Question THREEExplain the following terms as used in molecular parasitology

- a) Okazaki fragment
- b) Primer
- c) RNA
- d) mRNA
- e) tRNA

Question FOUR Discuss protein synthesis with emphasis on

- a) Replication
- b) Transcription
- c) Translation
- d) Splicing

Question FIVE)

- a) What are house keeping genes
- b) What are introns and what are their functions in protein synthesis
- c) What are proteomics
- d) What is the function of metabolomics