

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR:

CERTIFICATE IN MEDICAL LABORATORY SCIENCES

AML 1214 :MEDICAL LABORATORY PRACTICAL

SPECIAL/SUPPLEMETARY EXAMINATION

SERIES: SEPTEMBER 2018

TIME: 3 HOURS

DATE: 11 Sep 2018

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of **SIX** Question(s). Attempt ALL questions.

Question ONE

You are provided with overnight growth labeled X. With the reagents and stains provided identify the organism as far as possible (Procedures are required) (27 marks)

Identify **spot I** and its use (3 marks)

Question TWO

You are provided with a urine specimen labelled "B" from a patient for a routine medical check up. With reagents and apparatus provided.

- (i) Perform urinalysis and record your findings (10 marks)
- (ii) Write a brief procedure
- (iii) If there are any analytes present, give medical terminologies for their presence in the specimen. (2 marks)

(7 marks)

- Suggest other laboratory confirmatory test for any possible condition if any detected in your findings.
 (3 marks)
- (B) Examine spots "II" and "III" and answer the questions below: SPOT "II"

(i) Name the spot		(2 marks)		
(ii) Give two uses of the spot		(2 marks)		
SPOT "III"				
(iii)	Name the spot	(2 marks)		
(iv)	Give one use of the spot	(2 marks)		

Question THREE

A patient sample 'C' is brought to the Laboratory with a request for MCHC perform the Hb estimation and the PCV and calculate the MCHC 30mks

Question FOUR

A validation report for the blood grouping sera is required. From the availed sera, perform an avidity and specificity test to confirm potency of the sera. 30Mks

Question FIVE

You are provided with tissue slide labeled Z, using the provided reagents, stain and report the results (15 marks)

SPOTS

Spot IV

a)	Identify spot IV	(2 marks)
b)	Give three uses of the spot	(3 marks)
Spot V		
a)	Identify spot V	(2 marks)
b)	Give two uses of the spot	(2 marks)

c) What are the advantages of spot V

(6 marks0

Question SIX

A clinician request for analysis of ova and cyst from the provided freshly collected specimen A. Analyze the specimen satisfactorily and give the results. (20mks)

SPOT VI

a) Identify the spot VI	$(2^{1/2})$	
b) State the disease associated with the spot A and the specimen	it can be isolated from.	(21/2)
SPOT VII		
a) Identify the spot VII	(21/2)	

b) State the two diseases it transmits $(2^{1/2})$