

TECHNICAL UNIVERSITY OF MOMBASA

FACULTY OF APPLIED AND HEALTH SCIENCES

DEPARTMENT OF MEDICAL SCIENCES

UNIVERSITY EXAMINATION FOR

DIPLOMA IN MEDICAL LABORATORY SCIENCES

AML 2314 : MEDICAL LABORATORY PRACTICAL

END OF SEMESTER EXAMINATION

SERIES: AUGUST 2019

TIME: 2 HOURS

DATE: 20 Aug 2019

Instructions to Candidates

You should have the following for this examination -Answer Booklet, examination pass and student ID This paper consists of **TWO** Section(s). Attempt ALL questions. **Circle the correct answer in section A.**

Question One

You are provided with overnight growths labeled A. With the reagents and stains provided identify the organism as far as possible. (Procedures are required) **25 marks**

Spot I

- a. Identify the spot 1 mark
- b. Report on the spot

1 mark 4 marks

Question Two

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

(i)	Give the name of the specimen container	(2 marks)
(ii)	Perform urinalysis and record your findings	(10 marks)
(iii)	Write a brief procedure	(7 marks)
(iv)	Suggest possible causes of the findings in "ii" above.	(3 marks)

(B) Examine spots "III" and "IV" and answer the questions below:

SPOT "III"

(i)	Give two uses of the spot	(4 marks)
SPOT	"IV"	
(ii) (iii)	Name the spot Give one use of the spot	(2 marks) (2 marks)

Question Three

A patient has been in TB medication for the last 6 months. The clinician requests for an ESR of the medication-compliant patient. With apparatus and reagents provided, perform an Erythrocyte Sedimentation Rate test and advice the clinician on the progression of the disease. Brief procedures are required. 25 marks

Spot (5mks)

- a. Identify the spot
- b. State its use in the haematology laboratory
- c. Give one alternative for its use

Question four

There has been a mix-up during the processing of blood grouping sera. You are required to ascertain whether the test sera provided is specificity for anti-A before labelling. With apparatus and reagents provided perform the test for specificity. (Procedures are required (20mks)

a. Advice the quality manager on the way forward according to your results (3mks)

2marks

- b. Identify spot D
 - a. What are its uses in the laboratory 1 mark
 - b. Give two alternatives that can be used in its place 2marks
 - c. Give two reason why the uses of spot "D" should be discontinued in the clinical set-up 2marks

Question Five

You have been provided with a slide labelled H, using the reagents provided stain and give the results (20 Marks)

SPOT VI

SPOT

a)	Name spot VI	(1 Marks)
b)	Name one use of spot VI	(1 Marks)
c)	Name the alternative of spot VI	(1 Marks)
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a)	Name spot VII	(1 Marks)
b)	Name three uses of spot VII	(3 Marks)
c)	Name three alternative of spot VII	(3 Marks)

Question Six

You are provided with blood specimen labelled Q, using the reagents and apparatus provided.

Carry out a laboratory	procedure and c	discuss your findings.	(20marks)

SPOT I

i.	Identify the spot	(2.5 marks)
ii.	What is its medical importance	(2.5marks)
SPOT II		

Identify the spot	(2.5marks)
What is its medical importance	(2.5marks)