



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

SPECIAL/SUPPLEMENTARY 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

Q1. a. You are provided with overnight growths labeled A and B. With the reagents and stains provided identify the organism as far as possible (Principles and procedures are required) (24 marks)

SPOT I 3mks

- i. Identify the Spot
- ii. State its use

SPOT II 3mks

- i. Identify the Spot
- ii. State its use

Question TWO

You are provided with a specimen labeled B. With reagents provided, perform Pandy test and answer the following questions:

- A) Describe the test performed and report your findings **(13 Marks)**
- B) (i) What name describes the procedure for collection of specimen “B” **(3 Marks)**
- (ii) Name the important precaution to be considered during the procedure in B “i” above **(2 Marks)**
- C) Name any three pathological conditions which may be diagnosed using the specimen “B” **(6 marks)**

SPOT III

- i) Name the spot **(3 marks)**
- ii) Give one use of the spot **(3 Marks)**

Question THREE

You are provided with a blood sample labelled X. with reagents and apparatus provided, perform the following tests. Brief procedures are required **30marks**

- i. Erythrocyte sedimentation rate
- ii. Packed cell volume

Question FOUR

Using the reagents and apparatus provided, perform a crossmatch and issue blood to the patient Y who requires an emergency transfusion **30mks**

Question FIVE

You have been provided with a sample labeled H, using the reagents provided carry out the staining procedure and write down your findings **(15 marks)**

SPOTS

Spot IV

- a) Name the spot (2 marks)
- b) Give two uses of the spot (2 marks)
- c) Give the alternative of spot II which can be used for the same function (4 marks)
- d) Give out 4 types of machines which uses spot II (4 marks)

Spot V

- a) Identify the spot (1 mark)
- b) Name the uses of the spot (2 marks)

Question SIX

- 1. a) Using the provided sample B, analyze the sample for the blood inhabiting parasites (14mks)
- b) State the possible sporozoa which inhabit the blood system (3mks)
- c) State any three diseases blood sporozoa are associated with (3mks)

SPOT VI

- a) Identify the spot A (1mk)
- b) State the parasites associated with it and the disease it causes (2mks)
- c) What type of a host is the Spot A? (1mk)
- d) Which specimen is used when investigating for spot A? (1mk)

SPOT VII

- i. Identify the Spot B (2mks)
- ii. State one intermediate host and two definitive host of the parasite associated with spot B. (3mks)