Investing in Africa's Future"

COLLEGE OF HEALTH SCIENCES, AGRICULTURE & NATURAL SCIENCES

DEPARTMENT OF HEALTH SCIENCES

SLS 203: HAEMATOLOGY PRACTICAL

END OF FIRST SEMESTER EXAMINATIONS

APRIL/MAY 2018

LECTURER: MRS E. GOVORE

DURATION: 3 HRS

INSTRUCTIONS

1. Answer all questions in Sections A , B and C on the provided answer sheets.

Section A (one hour)

1a. Using the method provided demonstrate fibrin clot formation then answer the following questions (10)

b. State principle of this test and which coagulation pathway is measured (5)

c. State the results obtained using this method (5)

Holds 20 marks

Section B (one hour 30 minutes)

1. a.What does the image below show (2)

b. Explain the use of the instrument (2)

c. briefly explain the principle of the test (6)

2. a.What does the image below show (2)

b. the object shown is used for manual platelet count given

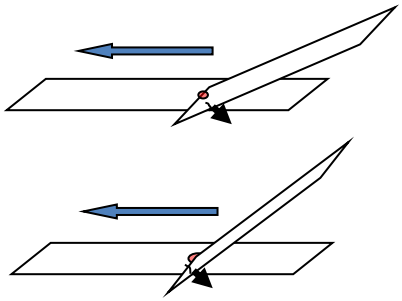
Total number of plts counted = 80

Correction for volume = 2.5

Correction for dilution =200

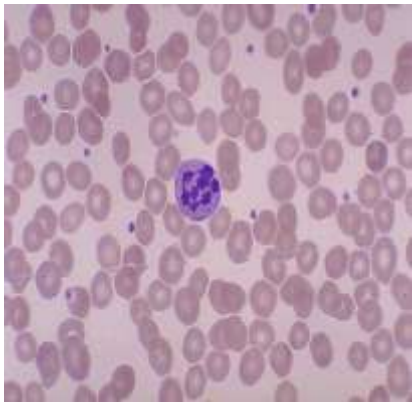
Calculate platelet count (8)

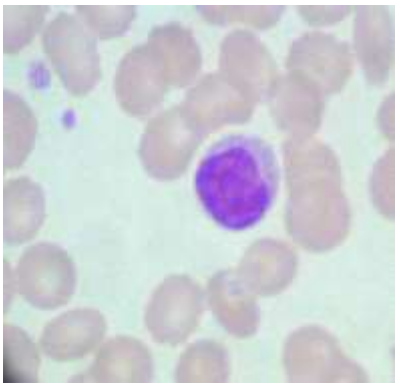
3. a. The image shows a slide being made. What type of smear is finally made? (2).

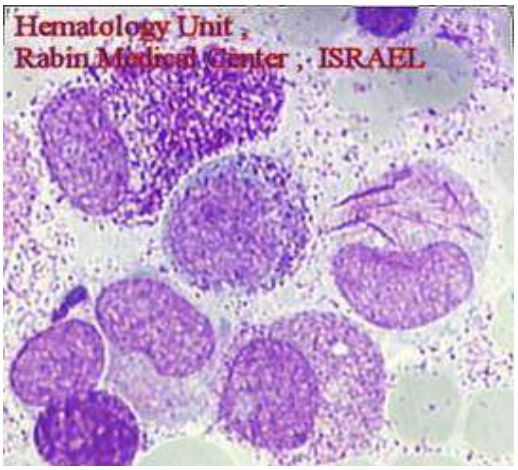


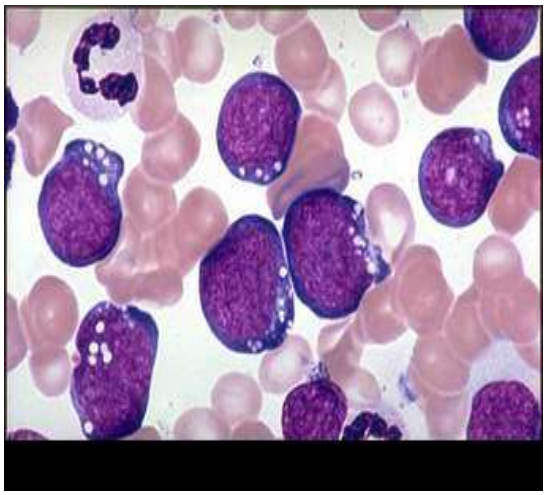
b. briefly explain how polymophonuclear cells are identified in the stained smear(8)

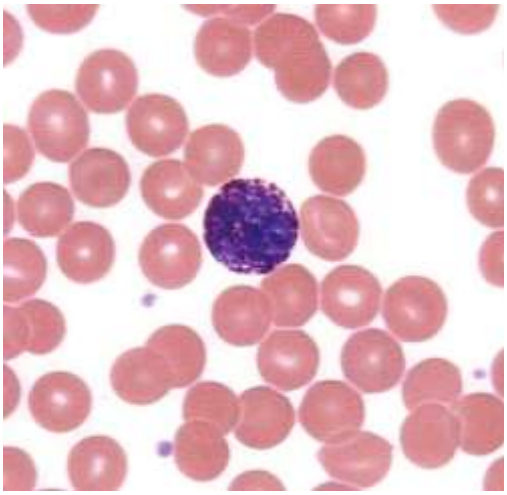
4. The following five slides show morphology of WBC in peripheral blood. Comment on the pictures you see (10)

a. 

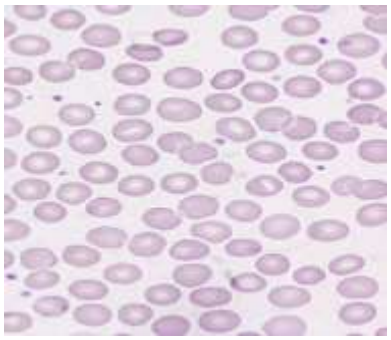
b. 

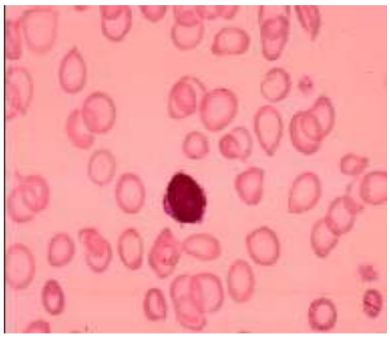
c. 

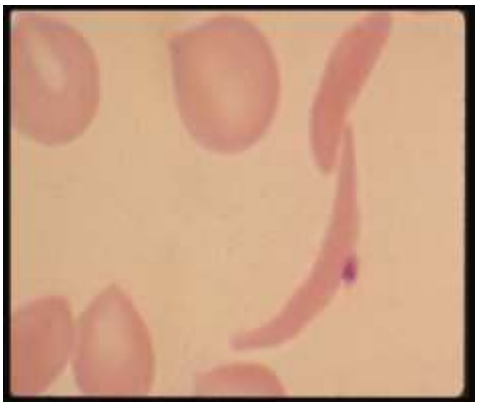
d. 

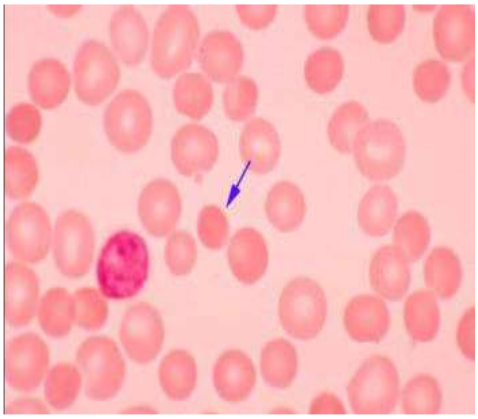
e. 

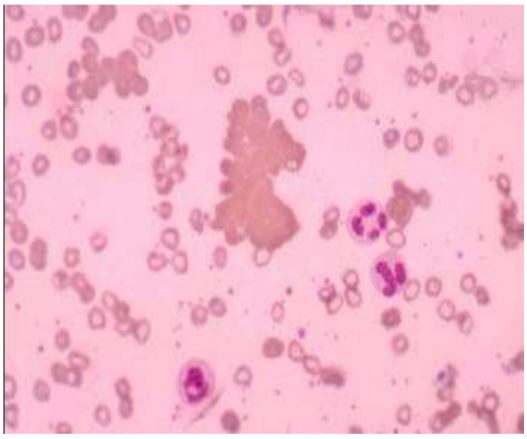
5. The following five slides show morphology of RBC in peripheral blood. Comment on the pictures you see (10)

a. 

b. 

c. 

d. 

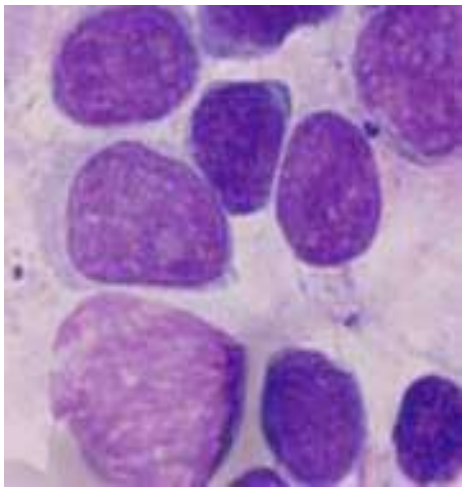
e. 

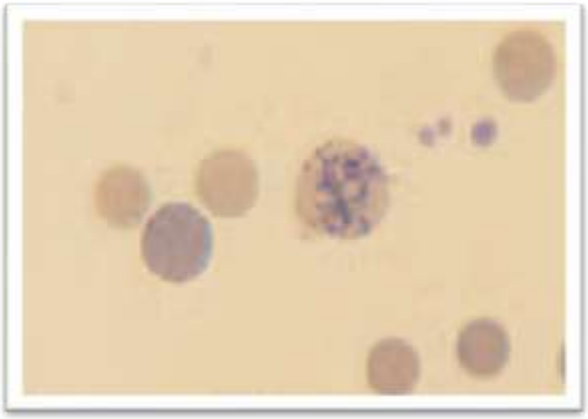
6. The following five slides show hematological abnormalities. Comment on the pictures you see (10)

a. 

b. 

c. 

d. 

e. 

Holds 60 marks

Section C (30 minutes)

1. The following are ten slides shown on the microscope. Comment on the film (10)

Holds 20 marks

Procedure for section A

1. Prewam reagents and specimens to 37^0C prior to performing this test.

2. Pippet 100µl of Citrated plasma into a labeled 12 x 75 mm test tube.

3. Add 200µl of thromboplastin to the test tube.

6. On addition of thromboplastin start stop watch simultaneously

7. Mix and determine coagulation time by tilting tube back and forth (checking for clot formation)

8. Stop stopwatch as soon as clot forms

9. Test is done in duplicates

10. Find average of the two tests

11. Record and report result