

- Q.25 a) Describe the shape of normal and abnormal BBC's.  
b) Write the procedure of thin blood film.

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**2nd Semester/ DMLT, DMLT  
(For Speech & Hearing Impaired)  
Subject : Applied Hematology / Hematology-II/  
Clinical Haematology-II**

Time : 3 Hrs.

M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is the normal haemoglobin level in adult males?  
a) 5-10 g/dl.                      b) 13-18 g/dl.  
c) 20-25 g/dl.                      d) 7-9 g/dl.
- Q.2 The cell counted by haemocytometry technique are:  
a) RBC                                      b) TLC  
c) Platelets                                      d) All of these
- Q.3 The Neubaure Counting Chamber is used for :-  
a) Measuring Haemoglobin  
b) Counting blood cells  
c) Measuring blood clotting time  
d) Detecting blood clotting time

Q.4 Which type of WBC is the most abundant in normal blood?

- a) Lymphocytes                      b) Monocytes  
c) Neutrophils                      d) Eosinophils

Q.5 Which of the following instruments is commonly used in automated haematology?

- a) Sphygmomanometer  
b) Haematology analyzer  
c) Microscope  
d) Colorimeter

Q.6 Which diluting fluid is used for WBC counting?

- a) Turk's Fluid                      b) Hayem's fluid  
c) Normal Saline                      d) Formalin

### SECTION-B

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 What is normal value of Hb in human female adult.

Q.8 Expand DLC.

Q.9 Define platelets.

Q.10 Write the normal value of Monocytes in human blood.

Q.11 Define accuracy.

Q.12 Define automation.

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### SECTION-C

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

Q.13 Write the composition of Hayem's fluid with their uses.

Q.14 Explain haemoglobin with their functions.

Q.15 What is the clinical significance of RBC counting.

Q.16 Write the calculation formula of Platelets counting.

Q.17 Write down the composition of Leishman stain.

Q.18 Explain characteristics of good blood film.

Q.19 Write the principle of coulter counter for cell counting with its advantages.

Q.20 Write a short note on internal quality control.

Q.21 Explain the concept of Leukocytopenia & Leukocytosis.

Q.22 Write errors associated with automated cell counters.

### SECTION-D

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

Q.23 Explain the principle & procedure of Sahli's method for estimation of Hb.

Q.24 Expand the method of WBC counting.

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