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**2nd Sem / DMLT, DMLT**
**(For Speech and Hearing Impaired)**
**Subject : Applied Haematology**

Time : 3 Hrs. M.M. : 60

## SECTION-A

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

Q.1 Which type of cells help in clotting of blood

a) WBCs b) Platelets

c) RBCs d) None of these

Q.2 Globin contains alpha and

a) beta chain b) gamma chain

c) delta chain d) none of these

Q.3 Normal range of Platelets.

a) 150000-400000 cells /cumm.

b) 4000-5000 cells/cumm.

c) 4000-10000 cells/cumm.

d) None of these



Q.4 Which one is used for cell counts

a) Haemaglobinometer b) Haemocytometer

c) Glucometer d) None of these

Q.5 In sickle cell anemia, RBC becomes_____ shape.

a) Sickle b) Oval

c) Elliptical d) Round

Q.6 Decreases no. of RBC is also known as

a) Leukocytopenia b) Thermobocytopenia

c) Erythrocytopenia d) None of these

## SECTION-B

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

Q.7 Normal life span of RBCs is_____

Q.8 Expand TLC & DLC.

Q.9 Define Accuracy.

Q.10 Expand PBF.

Q.11 Define carboxyhaemoglobin.

Q.12 Define Leucopoeisis.

## SECTION-C

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

Q.13 Give characteristics of good blood film.

Q.14 Draw diagram of Neubauer counting chamber.

Q.15 Explain various types of Haemoglobin.

Q.16 Describe Internal Quality Control in brief.

Q.17 Draw RBC and WBC Pipette and write their uses.

Q.18 Write the procedure of WBC counting.

Q.19 Write the composition of Leishman stain.

Q.20 Define S.D. and write the mathematical formula for calculation of S.D.

Q.21 Write any four advantages of automation.

Q.22 Write a note on degradation of Hb.

## SECTION-D

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

Q.23 Write the procedure of RBC count with their calculation & clinical significance.



Q.24 Explain Sahli's method for Haemoglobin estimation.

Q.25 Draw a well labelled diagram of coulter counter and also explain its working.