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181915

**1st Year / MLT**

**Subject:- Haematology**

Time : 3Hrs.

M.M. : 60

**SECTION-A**

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

Q.1 Globin synthesis occurs in \_\_\_\_\_

- a) Bone marrow                      b) Cytoplasm
- c) WBC                                      d) RBC

Q.2 The cell counted by haemocytometry technique are:

- a) RBC                                      b) TLC
- c) Platelets                              d) All of these

Q.3 In Thrombocytopenia the level of Platelets:

- a) increases                              b) decreases
- c) both of these                              d) non of these

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Q.4 Normal value of TLC in blood is \_\_\_\_\_

- a) 11000/cumm                      b) 100000/cumm
- c) 1000/cumm                      d) none of these

Q.5 Automatic cell counter counts -

- a) WBC                                      b) RBC
- c) Platelets                              d) All of these

Q.6 In case of WBC counting the ratio of blood : diluting fluid is:

- a) 1 : 200                                      b) 2 : 200
- c) 2 : 100                                      d) 1 : 100

**SECTION-B**

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

Q.7 Write the normal value of RBC in human male adult.

Q.8 Expand PBF.

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Q.9 Define polycythemia.

Q.10 Which pipette is used for WBC counting?

Q.11 Define anaemia.

Q.12 Examples of Romanowsky stains are \_\_\_\_\_ &  
\_\_\_\_\_

### SECTION-C

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

Q.13 Mention the composition of Leishman stain.

Q.14 Explain in brief different types of haemoglobin.

Q.15 Write the clinic significance of WBC counting.

Q.16 Write the calculation formula of RBC counting.

Q.17 Write the preparation of Giemsa stain.

Q.18 Write any four characteristics of good blood film.

Q.19 Explain automated blood cell counter in detail.

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

Q.21 Write any four advantages of automation.

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 Sahil's method for estimation of Hb.

Q.24 Explain the method of WBC counting.

Q.25 Describe normal and abnormal morphology of RBC's in detail.