

Time Allowed : 3 Hrs.**MM: 60****Section -A****Note: Multiple Choice questions. All questions are compulsory.****6x1=6**

Q.1 Protein and _____ are the main component of Hemoglobin.

- | | |
|---------------|-------------------|
| (a) Sodium | (b) Iron |
| (c) Potassium | (d) None of these |

Q.2 Haemoglobinometer is used for _____ ?

- | | |
|--------------------|-------------------|
| (a) Hb. Estimation | (b) Cell count |
| (c) Pulse rate | (d) None of these |

Q.3 Which cell helps in Blood clotting?

- | | |
|----------|-------------------|
| (a) WBCs | (b) Platelets |
| (c) RBCs | (d) None of these |

Q.4 Which one is a connective Tissue?

- | | |
|------------|-------------------|
| (a) Blood. | (b) Urine |
| (c) Muscle | (d) None of these |

Q.5 Normal range of WBCs.

- | | |
|---------------------------|--------------------------|
| (a) 1500-2500 cells/cumm | (b) 1000-5000 cells/cumm |
| (c) 4000-10000 cells/cumm | (d) None of these |

Q.6 Increase no. of Platelets is also known as _____

- | | |
|--------------------|--------------------|
| (a) Leukocytosis | (b) Thrombocytosis |
| (c) Erythrocytosis | (d) None of these |

Section-B**Note: Objective/Completion type questions. All questions are compulsory.****6x1=6**

Q.7 The Technique which is used for Hb. Estimation is known as (Haemocytometry / Hemoglobinometry).

Q.8 RBCs helps in (Respiration/ Blood clotting)

Q.9 Write the normal value of Platelets.

Q.10 Define Automated cell counter.

Q.11 Normal %age of Lymphocytes.

Q.12 Expand DLC and TLC.

Section -C**Note: Short answer type Questions. Attempt any eight questions out of ten questions.****8x4= 32**

Q.13 Describe Degradation of Haemoglobin.

Q.14 Write any four function of Haemoglobin.

Q.15 Describe Neubauer counting chamber in brief.

Q.16 Draw RBC and WBC Pipette and write their uses.

Q.17 Define TLC and write their clinical significance.

Q.18 Write the Disadvantages of automation.

Q.19 Describe External Quality Control in brief.

Q.20 Write the procedure of preparation of thin blood film.

Q.21 Write any four errors involved in Haemocytometry.

Q.22 Write the procedure of WBC count.

Section-D**Note: Long answer questions. Attempt any two questions out of three questions.****2x8=16**

Q.23 Describe Principle, procedure and clinical significance of Hb. Estimation by Sahli's method

Q.24 Explain Platelets count with their clinical significance.

Q.25 Explain Principle and procedure of Automated cell counter (Impedance Method).