

NAME OF FACULTY: Mr. Bipul Kumar Mahto

DISCIPLINE : DMLT

SEMESTER : 2nd

SUBJECT : HAEMATOLOGY - II (121924)

WEEK	LECTURE DAY	THEORY	PRACTICAL DAY	PRACTICAL
		TOPIC		TOPIC
1 st	1 st	Haemoglobinometry Introduction and Functions of Haemoglobin	1 st	Preparation of peripheral blood film.
	2 nd	Formation of haemoglobin		
	3rd	Formation of haemoglobin		
2 nd	4 th	Degradation of haemoglobin	2 nd	Preparation and standardization of leishman stain
	5 th	Degradation of haemoglobin		
	6 th	Types of haemoglobin		
3 rd	7th	Types of haemoglobin	3 rd	Preparation and standardization of giemsa stain
	8th	Various methods of estimation with specific reference to cyanmethaemoglobin method		
	9th	Various methods of estimation with specific reference to cyanmethaemoglobin method		
4th	10th	Various methods of estimation with specific reference to cyanmethaemoglobin method	4 th	Preparation of thick and thin blood smear
	11th	Haemocytometry Introduction		
	12th	Various counting chambers		
5th	13th	Methods of counting of RBC	5 th	Haemoglobin Estimation by Sahli's method
	14th	Methods of counting of RBC		
	15th	Calculation and reference values of RBC		

6th	16th	Methods of counting of WBC	6 th	Haemoglobin Estimation by Oxy-Haemoglobin method
	17th	Methods of counting of WBC		
	18th	Calculation and reference values of WBC		
7th	19th	Methods of counting of Platelets	7 th	Haemoglobin Estimation by Cyanmethaemoglobin method
	20th	Methods of counting of Platelets		
	21st	Calculation and reference values of Platelets		
8th	22nd	Errors involved in haemocytometry	8 th	Counting of RBC
	23rd	Errors involved in haemocytometry		
	24th	Means to minimize errors		
9th	25th	CLASS TEST	9 th	Counting of WBC
	26th	Differential leucocyte counting (DLC) Introduction		
	27th	Preparation and staining of blood film		
10 th	28th	Performance of DLC	10 th	Platelet counting
	29th	Normal values and significance of DLC		
	30th	Blood cell morphology in health and disease (Peripheral blood film)		
11 th	31st	Quality Assurance Introduction	11 th	Absolute eosinophil counting
	32nd	Quality Assurance in haematology such as accuracy		
	33rd	Quality Assurance in haematology such as accuracy		
12 th	34th	Quality Assurance in haematology such as precision	12 th	Study of morphology of normal RBC and WBC with the help of stained slide
	35th	Quality Assurance in haematology such as precision		
	36th	Automation in haematology Introduction		
13 th	37th	Various types of Blood cell counter	13 th	To study abnormal morphology of RBC with the help of stained slide
	38th	Various types of Blood cell counter		

	39th	Principle and operation of the automated blood cell counters		
14 th	40th	Principle and operation of the automated blood cell counters	14 th	To study abnormal morphology of WBC with the help of stained slide
	41st	Discussion of Important Questions Unit 1		
	42nd	Discussion of Important Questions Unit 2		
15 th	43rd	Discussion of Important Questions Unit 3	15 th	To study abnormal morphology of platelet with the help of stained slide
	44th	Discussion of Important Questions Unit 4		
	45th	Discussion of Important Questions Unit 5		

