Lesson Plan

Name of the Faculty : Ms.Seema

Discipline : Medical Lab Technology

Year : 1st SEM

Subject : Introduction to Hematology

Lesson Plan : 15 weeks

Work load (lecture/practical) per week (in hours) : Lectures-03, practicals-04

Week	Theory			Practical		
	Lectu re day	Date	Topic (including assignment test)	Practical Day (2 hours lab each day), (2 hours each day*2 days in week=4 weekly load)	Topic	
1 st	1 st		Introduction to haematology 1.1 Various glassware/plastic-ware used in Haematology Labs. (Hb. Tube, Hb. Pipette, RBC Pipette, WBC Pipette).		Parts of microscope (Monocular & Binocular): Its function and care.	
	2 nd		1.2 Introduction to blood.1.3 Definition & Composition			
	3 rd		1.4 Cells-WBC (Granulocytes-Neutrophils, Eosinophils& Basophils), (Agranulocytes- Lymphocytes & Monocytes), RBC, Platelets.			
2 nd	4 th		1.5 Plasma & its components 1.6 Function-cell functions & plasma functions.		Parts of centrifuge: Its function and care	
	5 th		1.7 Formation of blood (Erythropoiesis)	-		
. ad	6 th		(Leukopoiesis&Thrombopoiesis)			
3 rd	7 th		Definition 2.1 Various types along with their mode of action, merit and demerit its of each Anticoagulant vials		3. Parts of Blood Mixer: Its function and care	
	8 th		2.3 Difference between Plasma and serum			
	9 th		Venous blood collection 3.1 Venipuncture : materials and equipment required for venipuncture			
4 th	10 th		3.2 Preparation of patients for venipuncture		4. Cleaning and drying of glassware	
	11 th		3.3 Applying tourniquet			
	12 th		3.4 Selection and preparing the venipuncture site			
5 th	13 th		3.5 Performing venipuncture		UNIT II	
	14 th		3.6 Care of venipuncture site		5. Estimation of Differential Leukocyte	
	15 th		1		count.	

6 th	16 th	3.7 Disposable of blood, syringes, needle and	TOTAL TAL		
	17 th	lancets.	UNIT III		
	18 th		6. Preparation of various anticoagulants.		
7 th	19 th	The capillary puncture			
	aoth	4.1 Capillary puncture site	UNIT IV		
	20 th 21 st	4.2 Materials and equipment required for	7. Collection of blood sample by		
	21	capillary puncture site	venipuncture.		
		4.3 Selecting and preparing the puncture site			
8 th	22 nd	4.4 Techniques performing the puncture site			
	23 rd	4.5 Collection of blood sample	8. Collection of blood sample by		
	24 th	4.6 Care of the capillary puncture site	capillary puncture		
		4.7 Vacutainer system for blood collection			
9 th	25 th	Romanowsky stains (Leishman, Giemsa)	UNIT V 9. Preparation of peripheral blood film (PBF).		
	26 th	5.1 Preparation and theory			
	27 th	5.2 Choice of slide and spreader			
10th	28 th	5.3 Preparation of blood film			
		5.4 Characteristics of good blood smear			
	29 th	5.5 Examination of blood smear	10. Preparation of stain.		
	30 th	5.6 Identification of blood cell			
11th	31 st	REVISION	REVISION		
	32 nd	REVISION			
	33 rd	REVISION			
12th	34 th	REVISION	REVISION		
	35 th	REVISION			
	36 th	REVISION			
13th	37 th	REVISION	REVISION		
	38 th	REVISION			
	39 th	REVISION			
14th	40 th	REVISION	REVISION		
	41 st	REVISION			
	42 nd	REVISION			
15th	43 rd	REVISION	REVISION		
	44 th	REVISION			
	45 th	REVISION			
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