

Introduction To Medical Laboratory Methods

- Stool: Methods of collection, Concentration, Preparation methods, Physical, chemical, and microscopic examination, Morphology of various and cyst in stool.
 - Histopathology and Cytology
4. **Histotechnology: (Elementary)** 13
- Introduction of subject, Cell, tissue and their function.
 - Methods of examination of tissues and cells.
 - Fixation of tissues: classification of fixatives, simple fixatives and their properties, cytological fixatives, Histochemical fixatives.
 - Tissue Processing: Collection of specimen, Labelling and processing, Dehydration, Impregnation, Embedding.
 - Quality control and automation in Histotechnology
 - Section Cutting: Microtomes and microtome knives, techniques of section cutting.
 - Staining: Use of various routine stains in histotechnology, staining technique of haematoxylin and eosin, mounting of section.
 - Cytology: Cytotechniques, elementary knowledge, preparation of cytology slides, FNZC (Fine Needle Aspiration Cytology), Papanicolaou staining, Giemsa staining, Sex chromatin staining

PRACTICAL LABORATORY MEDICINE

<i>Time: 3 Hours</i>		<i>Marks: 50</i>
I. Clinical Pathology:		25
1. Practice of drawing of blood from finger and from vein under expert guidance.		5
2. Demonstration of preparation of anticoagulants, RBC fluid, WBC fluid, fluid for eosinophil count and platelet counts.		5
3. Demonstration of PCV and ESR measurement by wintrobe and westergrene methods.		5
4. Practical-RBC Count, Total WBC Count Hb-Estimation, Different Count.		5
5. Urine Examination: Routine examination, Physical, Chemical, Microscopic examination.		2.5
6. Stool Examination: Demonstration of ova and cyst of nematodes and cystodes		2.5
II. Histopathology and Cytology		25
1. Demonstration of use of various microtomes.		5
2. Demonstration of section cutting and preparation of slides, demonstration of use of automatic tissue, changer, tissue processing procedures.		5
3. Demonstration of or preparation of formal saline and various fixatives of common use and decalcifying fluids.		5
4. Demonstration for sharpening of knives.		5
5. Practical: Staining of slides, using		5
(i) Haematoxylin and eosin stains and examination under microscope.		
(ii) Preparation and fixation of cytology smears, staining, smears by Papanicolaou's/ Giemsa technique.		

ELECTIVE-II (CLASS-XI): THEORY CLINICAL BIOCHEMISTRY, MICROBIOLOGY (661)

<i>Time: 3 Hours</i>		<i>Marks: 50</i>
Biochemistry		
I. Introduction to Biochemistry: Definition, aim and scope of biochemistry.		
II. Fundamentals of Organic Chemistry, Organic Compound Definition:		
- Amines, Aldehydes, Acids, Phenols, Esters, Ketones, Colloids.		

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