

# JANTA COLLEGE OF PHARMACY, BUTANA (SC)

## LESSON PLAN

**Name of the Faculty** : Mrs. Poonam Rani

**Discipline** : DMLT

**Semester** : Fourth

**Subject** : Cl. Biochemistry (121943)

**Lesson Plan Duration** : 16 weeks (from 6 March, 2023 to 23 June, 2023) (According to Syllabus Scheme)

**Work load (Lecture/Practical) per week (in hours)** : Lectures-03(hr), Practicals-03(hr)

Week	Theory		Practical Day
	Lecture Day	Topic (including assignment/test)	
		<b>Urine Analysis</b>	
1st	1st	Normal composition of urine	1st
	2nd	Clinical importance of urine analysis	
	3rd	Qualitative analysis of proteins	
2nd	1st	Qualitative analysis of Sugar	2nd
	2nd	Qualitative analysis of bile salts, bile pigments	
	3rd	Qualitative analysis of urobilinogen and blood	
3rd	1st	Detailed discussion on glycosuria and albuminuria	3rd
	2nd	Detailed discussion on glycosuria and albuminuria	
	3rd	Ketone bodies	
4th	1st	Urinary electrolytes estimation (Na <sup>+</sup> , K <sup>+</sup> and Cl <sup>-</sup> )	4th
	2nd	Urinary electrolytes estimation (Na <sup>+</sup> , K <sup>+</sup> and Cl <sup>-</sup> )	
	3rd	<b>Stool Chemistry</b> Physical characteristics and chemical composition of stool	
5th	1st	Physical characteristics and chemical composition of stool	5th
	2nd	Physical characteristics and chemical composition of stool	
	3rd	Physical characteristics and chemical composition of stool	
6th	1st	Significance of presence of blood and excess fat in stool	6th
	2nd	Significance of presence of blood and excess fat in stool	
	3rd	Occult blood detection	
7th	1st	Occult blood detection	7th
	2nd	<b>Cerebrospinal Fluid</b> Composition of CSF and its functions	
	3rd	Methods of determination of proteins, sugar and chloride in CSF	
8th	1st	Methods of determination of proteins, sugar and chloride in CSF	8th
	2nd	Methods of determination of proteins, sugar and chloride in CSF	
	3rd	Reference Values and Clinical importance	
		<b>Biological fluids</b>	
9th	1st	Formation, composition and significance of Peritoneal fluid	9th
	2nd	Formation, composition and significance of Pleural fluid	
	3rd	Formation, composition and significance of Synovial fluid	

10th	1st	Formation, composition and significance of Ascitic fluid	10th
	2nd	All topics Repeat	
		<b>Electrophoresis</b>	
	3rd	Theory	
11th	1st	Principle and procedure of paper electrophoresis	11th
	2nd	Principle and procedure of Gel electrophoresis	
	3rd	Method of elution, Clinical importance	
		<b>Chromatography</b>	
12th	1st	Theory of Chromatography	12th
	2nd	Separation between stationary and mobile phases	
	3rd	Principle and procedure of paper chromatography	
13th	1st	Importance of Chromatography	13th
		<b>Automation in Biochemistry</b>	
	2nd	Classification and types of Auto analyzers	
	3rd	Classification and types of Auto analyzers	
14th	1st	Classification and types of Auto analyzers	14th
	2nd	Classification and types of Auto analyzers	
	3rd	Classification and types of Auto analyzers	
		<b>Thyroid function tests</b>	
15th	1st	Clinical importance of T <sub>3</sub> ,T <sub>4</sub> and TSH	15th
	2nd	Clinical importance of T <sub>3</sub> ,T <sub>4</sub> and TSH	
	3rd	Clinical importance of T <sub>3</sub> ,T <sub>4</sub> and TSH	
16th	1st	Clinical importance of T <sub>3</sub> ,T <sub>4</sub> and TSH	16th
		<b>Introduction of Tumor markers</b>	
	2nd	Commonly used Tumor Markers (Cancer Markers)	
	3rd	Commonly used Tumor Markers (Cancer Markers)	

**ONEPAT)021**

**Practical**

**Topic**

Analysis of urine for sugar by qualitative method

Analysis of urine for sugar by quantitative method

Analysis of urine proteins by qualitative method

Analysis of urine proteins by quantitative method

Estimation of ketone bodies in given urine sample

Estimation of urobilinogen in given urine sample

Detection of bile salt in given urine sample

Detection of bile pigments in given urine sample

Detection of occult blood in given stool sample

Estimation of proteins in CSF

Estimation of sugar in CSF

Estimation of chloride in CSF

Demonstration of paper electrophoresis

Demonstration of paper chromatography

# JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

## LESSON PLAN

**Name of the Faculty** : Mrs. Namarta Devi

**Discipline** : DMLT

**Semester** : 4th Sem (2nd year)

**Subject** : Employability Skills – II

**Lesson Plan Duration** : 16 weeks (from 6 March, 2023 to 23 June, 2023) (According to Syllabus Scheme)

**Work load (Lecture/Practical) per week (in hours)** : Practicals-02(hr)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
1st	1st		1st	Mock interview
	2nd			
	3rd			
2nd	1st		2nd	Mock interview
	2nd			
	3rd			
3rd	1st		3rd	Mock interview
	2nd			
	3rd			
4th	1st		4th	Preparing for meeting
	2nd			
	3rd			
5th	1st		5th	Preparing for meeting
	2nd			
	3rd			
6th	1st		6th	Preparing for meeting
	2nd			
	3rd			
7th	1st		7th	Group discussion
	2nd			
	3rd			
8th	1st		8th	Group discussion
	2nd			
	3rd			

<b>9th</b>	1st		9th	Seminar presentation
	2nd			
	3rd			
<b>10th</b>	1st		10th	Seminar presentation
	2nd			
	3rd			
<b>11th</b>	1st		11th	Making a presentation(Elements of good presentation)
	2nd			
	3rd			
<b>12th</b>	1st		12th	Making a presentation(Elements of good presentation)
	2nd			
	3rd			
<b>13th</b>	1st		13th	Structure and tools of presentation
	2nd			
	3rd			
<b>14th</b>	1st		14th	Structure and tools of presentation
	2nd			
	3rd			
<b>15th</b>	1st		15th	Paper reading
	2nd			
	3rd			
<b>16th</b>	1st		16th	Power point presentation
	2nd			
	3rd			

**JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT)**

**LESSON PLAN**

**Name of the Faculty** : Mrs.Poonam Rani

**Discipline** : DMLT

**Semester** : Fourth

**Subject** : Cl. Haematology - IV(121942)

**Lesson Plan Duration** : 16 weeks(from 6 March,2023 to 23 June,2023)(According to Syllabus Scheme)

**Work load(Lecture/Practical)per week(in hours)** : Lectures-03(hr),Practicals-03(hr)

Week	Theory		Practical	
	Lecture Day	Topic(including assigment/test)	Practical Day	Topic
		<b>Introduction of normal haemostasis</b>		
1st	1st	Theories of blood coagulation	1st	Determination of bleeding time by dukes method
	2nd	Theories of blood coagulation		
	3rd	Theories of blood coagulation		
2nd	1st	Theories of blood coagulation	2nd	Determination of bleeding time by Ivy's method
	2nd	Platelets and their role in haemostasis including count		
	3rd	Platelets and their role in haemostasis including count		
3rd	1st	Platelets and their role in haemostasis including count		
	2nd	Platelets and their role in haemostasis including count		
	3rd	Bleeding disorders and related diseases		
4th	1st	Bleeding disorders and related diseases	3rd	Determination of Clotting time by LEE and white method
	2nd	Bleeding disorders and related diseases		
	3rd	Bleeding disorders and related diseases		
5th	1st	Principle, procedure clinical importance,reference value of prothrombin time	4th	Determination of clot retraction test
	2nd	Principle, procedure clinical importance,reference value of APTT		
	3rd	Principle, procedure clinical importance,reference value of PTI		
6th	1st	Principle, procedure clinical importance,reference value of Thrombin time		
	2nd	Principle, procedure clinical importance,reference value of Bleeding time		
	3rd	Principle, procedure clinical importance,reference value of Bleeding time		
7th	1st	Principle, procedure clinical importance,reference value of Clotting time	5th	Determination of prothrombin time of quicks method
	2nd	Principle, procedure clinical importance,reference value of Clotting time		
	3rd	Principle, procedure clinical importance,reference value of CRT		
8th	1st	Principle, procedure clinical importance,reference value of Hess test	6th	Determination of activated partial thromboplastin time (APTT)
		<b>Bone - Marrow</b>		
	2nd	Composition and function of bone- marrow		
	3rd	Aspiration of bone- marrow by various methods		
9th	1st	preparation, staining and examination of bone-marrow smears for myclogram including M.E. Ratio	7th	Determination of Hess test
	2nd	Iron staining (Perls' reaction)		
	3rd	Significance of bone- marrow examination		

		<b>Leukemia</b>		
<b>10th</b>	1st	Definition of leukemias	8th	Determination of LE cell
	2nd	Definition of leukemias		
	3rd	Definition of leukemias		
<b>11th</b>	1st	(FAB) Classification	9th	Cell counts of various biological fluids
	2nd	(FAB) Classification		
	3rd	(FAB) Classification		
<b>12th</b>	1st	(FAB) Classification	10th	Routine examination of semen
	2nd	(FAB) Classification		
	3rd	Laboratory diagnosis of various leukemias		
<b>13th</b>	1st	Laboratory diagnosis of various leukemias		
		<b>LE Cell phenomenon</b>		
	2nd	Phenomenon of LE cell, its differentiation from tart cell		
<b>14th</b>	3rd	Demonstration of LE cell by various methods		
	1st	Clinical significance		
		<b>Semen Analysis in detail</b>		
<b>15th</b>	2nd	Semen Analysis in detail		
	3rd	Semen Analysis in detail		
	1st	Semen Analysis in detail		
<b>16th</b>	2nd	Semen Analysis in detail		
		<b>Cell counts of various biological fluids</b>		
	3rd	Cell counts of various biological fluids		
<b>17th</b>	1st	Cell counts of various biological fluids		
	2nd	Cell counts of various biological fluids		
	3rd	Cell counts of various biological fluids		



**JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT)**

**LESSON PLAN**

**Name of the Faculty** : Mrs.Parmila Devi  
**Discipline** : DMLT  
**Semester** : Fourth  
**Subject** : CLINICAL MICROBIOLOGY- IV(121941)  
**Lesson Plan Duration** : 16 weeks(from 6 March,2023 to 23 June,2023)(According to Syllabus Scheme)  
**Work load(Lecture/Practical)per week(in hours)** : Theory -03(hr),Practicals-03(hr)

Week	Theory		Practical	
	Lecture Day	Topic(including assignment/test)	Practical Day	Topic
1st		<b>Mycology</b>	1st	To prepare the sabouraude dextrose agar with and without antibiotics for the use microbiology lab
	1st	Characteristics and classification of medically important fungi		
	2nd	Characteristics and classification of medically important fungi		
2nd	3rd	Characteristics and classification of medically important fungi	2nd	To prepare the corn meal agar the use of microbiology lab
	1st	Characteristics and classification of medically important fungi		
		<b>Fungal Culture media</b>		
3rd	2nd	SDA with and without antibiotics	3rd	To prepare KOH stain for fungi
	3rd	CMA (Corn Meal agar) and BHI (Brain Heart Infusion)		
		<b>Collection and processing of sample for fungal infection in Skin, Nail and Hair</b>		
4th	1st	KOH Preparation	4th	To perform wet mount technique KOH and LCB.
	2nd	LCB ( Lactophenol cotton blue) India Ink		
		<b>Fungal Cultivation</b>		
5th	3rd	Medically important fungi - Candida , Dermatophytes	5th	Collection and processing of sample for diagnosis of fungal infection in skin, hair, nail scraping
	1st	Medically important fungi - Candida , Dermatophytes		
	2nd	Medically important fungi - Candida , Dermatophytes		
6th	3rd	Laboratory Contaminants - Penicillium, Rhizopus, Mucor, Aspergillus	6th	To perform widal test to given serum for by qualitative method
	1st	Laboratory Contaminants - Penicillium, Rhizopus, Mucor, Aspergillus		
	2nd	Laboratory Contaminants - Penicillium, Rhizopus, Mucor, Aspergillus		
7th		<b>Introduction to Immunology</b>	7th	Determine the anti sterpto lysin antibody in biven serum samble
	3rd	Immunity (Innate)		
	1st	Immunity (Innate)		
	2nd	Immunity (Innate)		
	3rd	Immunity (Acquired)		
	4th	Immunity (Acquired)		
	1st	Immunity (Acquired)		
	2nd	Immunity (Acquired)		
		<b>Antigens</b>		

	3rd	Definition, types and properties		
8th	1st	Definition, types and properties	8th	To perform CRP in given serum sample
	2nd	Definition, types and properties		
	3rd	Definition, types and properties		
		<b>Antibodies</b>		
9th	1st	Definition, types and properties	9th	To perform rheumatoid factor in given serum sample
	2nd	Definition, types and properties		
	3rd	Definition, types and properties		
10th	1st	Definition, types and properties	10th	To perform VDRL in given serum sample
		<b>Antigen - Antibody Reactions</b>		
	2nd	Principle and applications of agglutination		
11th	3rd	Principle and applications of agglutination	11th	To perform HIV in given blood sample
	1st	Principle and applications of agglutination		
	2nd	Precipitation and flocculation reactions		
12th	3rd	Precipitation and flocculation reactions	12th	To detection of hbsag in human serum
	1st	Precipitation and flocculation reactions		
		<b>Serological tests</b>		
13th	2nd	Principle, techniques and interperataion of widal - tube method/ slide method	13th	To detection of hbsag in human serum
	3rd	Principle, techniques and interperataion of widal - tube method/ slide method		
	1st	Principle, techniques and interperataion of widal - tube method/ slide method		
14th	2nd	Anti streptolysin O	14th	
	3rd	Anti streptolysin O		
	1st	C- reactive protein		
15th	2nd	C- reactive protein	15th	
	3rd	VDRL/ RPR		
	1st	VDRL/ RPR		
16th	2nd	Rheumatoid factor (Rf)	16th	
	3rd	Principle , techniques and application of ELISA (direct and indirect)		
	1st	Principle , techniques and application of ELISA (direct and indirect)		
16th	2nd	Principle , techniques and application of ELISA (direct and indirect)	16th	
	3rd	Principle , techniques and application of ELISA (direct and indirect)		
	1st	Principle , techniques and application of ELISA (direct and indirect)		

**JANTA COLLEGE OF PHARMACY,BUTANA(SONEPAT)**

**LESSON PLAN**

<b>Name of the Faculty</b>	: Mrs. Parmila Devi
<b>Discipline</b>	: DMLT
<b>Semester</b>	: Fourth
<b>Subject</b>	: Medical Laboratory Management (121946)
<b>Lesson Plan Duration</b>	: 16 weeks(from 6 March,2023 to 23 June,2023)(According to Syllabus Scheme)
<b>Work load(Lecture/Practical)per week(in hours)</b>	: Lectures-04(hr)

Week	Theory		Practical	
	Lecture Day	Topic(including assignment/test)	Practical Day	Topic
1st		<b>Introduction, Layout, Facility of clinical Laboratroy</b>	1st	
	1st	Role of medical laboratory technology in total health care		
	2nd	Principles of management, techniques of planning		
	3rd	Principles of management, techniques of planning		
2nd	4th	Principles of management, techniques of planning	2nd	
	1st	Physical facilites/equipments - layout and design		
	2nd	Physical facilites/equipments - layout and design		
	3rd	Physical facilites/equipments - layout and design		
3rd	4th	Physical facilites/equipments - layout and design	3rd	
		<b>Laboratory Organization and Layout</b>		
	1st	Laboratroy organization, operation, job description, evaluation, performance		
	2nd	Laboratroy organization, operation, job description, evaluation, performance		
4th	3rd	Laboratroy organization, operation, job description, evaluation, performance	4th	
	4th	Laboratroy organization, operation, job description, evaluation, performance		
	1st	Layout of clinical laboratories		
	2nd	Layout of clinical laboratories		
5th	3rd	Lay out of Blood Bank	5th	
	4th	Lay out of Blood Bank		
		<b>Material Required</b>		
	1st	Material management, procurement, financial resources		
6th	2nd	Material management, procurement, financial resources	6th	
	3rd	Material management, procurement, financial resources		
	4th	Importing, inventory, control and analysis, inspection, storage etc		
	1st	Importing, inventory, control and analysis, inspection, storage etc		
7th	2nd	Importing, inventory, control and analysis, inspection, storage etc	7th	
		<b>Quality Assurance</b>		
	3rd	Analytical control, Internal and external quality assurance in clinical laboratories		
	4th	Analytical control, Internal and external quality assurance in clinical laboratories		
8th	1st	Analytical control, Internal and external quality assurance in clinical laboratories	8th	
	2nd	Analytical control, Internal and external quality assurance in clinical laboratories		
	3rd	Precision, accuracy		
	4th	Precision, accuracy		
	1st	Standard deviation as per national standards		
	2nd	Standard deviation as per national standards		
	3rd	Standard deviation as per national standards		
	4th	All units repeat		

		<b>Safety Precautions</b>		
<b>9th</b>	1st	Safety measures in clinical laboratories (microbiology, haematology, biochemistry, etc	9th	
	2nd	Safety measures in clinical laboratories (microbiology, haematology, biochemistry, etc		
	3rd	Safety measures in clinical laboratories (microbiology, haematology, biochemistry, etc		
	4th	Safety measures in clinical laboratories (microbiology, haematology, biochemistry, etc		
<b>10th</b>	1st	Disposal of Biomedical waste.	10th	
		<b>First Aid in Clinical Laboratory</b>		
	2nd	Acid burn / Alkali burn		
	3rd	Acid burn / Alkali burn		
<b>11th</b>	4th	Accidental trauma	11th	
	1st	Accidental trauma		
	2nd	Gas/Toxic inhalation		
	3rd	Gas/Toxic inhalation		
<b>12th</b>	4th	Spillage	12th	
	1st	Spillage		
	2nd	All units repeat		
		<b>Medical Ethics and Code of Conduct</b>		
<b>13th</b>	3rd	Ethics and code of conduct- legal aspects - confidentiality malpractice/ negligence; legal implications	13th	
	4th	Ethics and code of conduct- legal aspects - confidentiality malpractice/ negligence; legal implications		
	1st	Ethics and code of conduct- legal aspects - confidentiality malpractice/ negligence; legal implications		
	2nd	Ethics and code of conduct- legal aspects - confidentiality malpractice/ negligence; legal implications		
<b>14th</b>	3rd	Law suits, consumer protection and insurance for professional health hazards	14th	
	4th	Law suits, consumer protection and insurance for professional health hazards		
	1st	Law suits, consumer protection and insurance for professional health hazards		
	2nd	Law suits, consumer protection and insurance for professional health hazards		
<b>15th</b>		<b>Laboratory Equipment - Care and Maintenance</b>	15th	
	3rd	Preventive maintenance and care of various laboratory equipment		
	4th	Preventive maintenance and care of various laboratory equipment		
	1st	Preventive maintenance and care of various laboratory equipment		
<b>16th</b>	2nd	Preventive maintenance and care of various laboratory equipment	16th	
	3rd	Preventive maintenance and care of various laboratory equipment		
		<b>Role of Computer in Lab services</b>		
	4th	Storage and retrieval of laboratory data manually and with help of computers		
<b>16th</b>	1st	Storage and retrieval of laboratory data manually and with help of computers	16th	
	2nd	Storage and retrieval of laboratory data manually and with help of computers		
		<b>Laboratory Accreditation - Introduction</b>		
	3rd	Laboratory Accreditation - Introduction		
	4th	Laboratory Accreditation - Introduction		

# JANTA COLLEGE OF PHARMACY, BUTANA (SONEPAT)

## LESSON PLAN

<b>Name of the Faculty</b>	: Mr. Amit Kumar
<b>Discipline</b>	: DMLT
<b>Semester</b>	: Fourth
<b>Subject</b>	: HISTOPATHOLOGY AND CYTOLOGY - II (121944)
<b>Lesson Plan Duration</b>	: 16 weeks (from 6 March, 2023 to 23 June, 2023) (According to Syllabus Scheme)
<b>Work load (Lecture/Practical) per week (in hours)</b>	: Lectures-04(hr), Practicals-03(hr)

Week	Theory		Practical	
	Lecture Day	Topic (including assignment/test)	Practical Day	Topic
<b>1st</b>	1st	Principles of light microscope <b>(1st Unit)</b>	1st	Demonstration of various parts of light microscope.
	2nd	Various parts of microscope		
	3rd	Uses of microscope, Cleaning and maintenance		
	4th	Polarizing microscopy		
<b>2nd</b>	1st	Polarizing microscopy	2nd	Demonstration of various parts of light microscope (Repeat).
	2nd	Dark field microscopy		
	3rd	Phase contrast microscopy		
	4th	Fluorescent microscopy		
<b>3rd</b>	1st	Fluorescent microscopy	3rd	Demonstration of cryostat.
	2nd	Electron microscopy		
	3rd	Electron microscopy		
	4th	PAS (Periodic Acid Schiff's Reagent) <b>(2nd Unit)</b>		
<b>4th</b>	1st	PAS (Periodic Acid Schiff's Reagent)	4th	Processing of tissue for frozen section.
	2nd	Silver impregnation stain – Reticulin fibre		
	3rd	Silver impregnation stain – Reticulin fibre		
	4th	Ziehl Neelson's – for AFB and Leptrae		
<b>5th</b>	1st	Ziehl Neelson's – for AFB and Leptrae	5th	Staining and mounting of frozen section using H&E stain.
	2nd	Masson's trichrome stain		
	3rd	Masson's trichrome stain		
	4th	Oil Red O – fat		
<b>6th</b>	1st	Oil Red O – fat	6th	Staining and mounting of frozen section using Oil Red "O".
	2nd	Gram's stain – Gram +ve and Gram –ve		
	3rd	Gram's stain – Gram +ve and Gram –ve		
	4th	Process of decalcification <b>(3rd Unit)</b>		
<b>7th</b>	1st	Various types of decalcifying methods	7th	Preparation of various mounting reagents for museum specimens.
	2nd	Various types of decalcifying methods		
	3rd	Their mechanism, advantage, disadvantage		
	4th	applications		
	1st	Assessment of decalcification		

8th	2nd	Reception and processing of frozen tissue <b>(4th Unit)</b>	8th	Preparation of various mounting reagents for museum specimens.rpt
	3rd	Freezing microtome and cryostat		
	4th	Advant. & dis-advan. of freezing microtome and cryostat		
9th	1st	Working, care, maint. of freezing microtome and cryostat	9th	Demonstration and care of autopsy instruments.
	2nd	Frozen section cutting		
	3rd	Staining:-Rapid H&E		
	4th	Fat stain & Mounting of frozen section		
10th	1st	Museum Techniques <b>(5th Unit)</b>	10th	Demonstration and care of autopsy instruments.(Repeat)
	2nd	Introduction to museum		
	3rd	emphasis on importance of museum		
	4th	emphasis on importance of museum		
11th	1st	Reception	11th	Demonstration of malignant cell.
	2nd	fixation		
	3rd	fixation		
	4th	processing of various museum specimens		
12th	1st	Cataloguing of museum specimen	12th	Preparation of dry smear and wet smear.
	2nd	Cataloguing of museum specimen		
	3rd	Introduction to autopsy technique <b>(6th Unit)</b>		
	4th	autopsy area,instruments,Use of autopsy		
13th	1st	Malignant Cells(Characteristics) <b>(7th Unit)</b>	13th	To perform Pap stain.
	2nd	Differences from normal cell		
	3rd	Importance of HCG <b>(8th Unit)</b>		
	4th	Use of Harmonal Assessment (Pregnancy Test)		
14th	1st	Principle of FNAC <b>(9th Unit)</b>	14th	To perform Pap stain.(Repeat)
	2nd	Indications of FNAC		
	3rd	Uses of FNAC		
	4th	Staining Techniques:-PAP Stain		
15th	1st	MGG (May-Grunwald – Giemsa)	15th	Fixation of smears and staining with MGG.
	2nd	H&E (Haematoxylin & Eosin Stain)		
	3rd	Cytological special stains(PAS Stain) <b>(10th Unit)</b>		
	4th	PAS ( Periodic Acid Schiffs reagent Stain)		
16th	1st	Zeihl Neelson's(ZN) Stain (AFB)	16th	Fixation of smears and staining with MGG.(Repeat)
	2nd	Zeihl Neelson's(ZN) Stain (AFB)		
	3rd	Advancements in Cytology <b>(11th Unit)</b>		
	4th	Use of Cytospin		