CBSE | DEPARTMENT OF SKILL EDUCATION

MEDICAL DIAGNOSTICS (SUBJECT CODE 828)

MARKING SCHEME FOR CLASS XII (SESSION 2022-2023)

Max. Time: 3 Hours

General Instructions:

- 1. Please read the instructions carefully.
- 2. This Question Paper consists of 24 questions in two sections Section A & Section B.
- 3. Section A has Objective type questions whereas Section B contains Subjective type questions.
- 4. Out of the given (6 + 18 =) 24 questions, a candidate has to answer (6 + 11 =) 17 questions in the allotted (maximum) time of 3 hours.
- 5. All questions of a particular section must be attempted in the correct order.
- 6. SECTION A OBJECTIVE TYPE QUESTIONS (30 MARKS):
 - i. This section has 06 questions.
 - **ii.** There is no negative marking.
 - iii. Do as per the instructions given.
 - iv. Marks allotted are mentioned against each question/part.

7. SECTION B – SUBJECTIVE TYPE QUESTIONS (30 MARKS):

- i. This section contains 18 questions.
- ii. A candidate has to do 11 questions.
- iii. Do as per the instructions given.
- iv. Marks allotted are mentioned against each question/part.

SECTION A: OBJECTIVE TYPE QUESTIONS

				_	1 1
Q.		Source Material	Unit/	Page no.	
No.	QUESTION	(NCERT/PSSCIVE/ CBSE	Chap.	of source	Marks
		Study Material)	No.	material	
Q. 1	Answer any 4 out of the given 6 questions on I		= 4 marks	5)	
i.	is defined as an unpleasant	CBSE STUDY MATERIAL	4	93	1
	feeling triggered by the perception of danger,				
	real or imagined				
	a) Risk				
	b) Fear				
	c) Anger				
	ANS: Fear				
ii.	guides independent	CBSE STUDY MATERIAL	2	23	1
	individuals as it helps them consider long term				
	consequences rather than just transient				
	feelings.				
	a) Self-regulation				
	b) Self – awareness				
	c) Self-motivation				
	ANS: Self-regulation				
iii.	is a school of Hindu philosophy	CBSE STUDY MATERIAL	2	25	1
	reducing stress, which includes a series of				
	postures and breathing exercises practiced to				
	achieve control of body and mind.				
	a) Yoga				
	b) Meditation				
	c) Physical exercise				
	ANS: Yoga				

Max. Marks: 60

1

iv.	Ais a software that helps you type	CBSE STUDY MATERIAL	3	63	1
	and work with text on a computer.				
	a) Power point				
	b) Word processor				
	c) Adobe				
	ANS: Word processor				
٧.	is a process of developing	CBSE STUDY MATERIAL	4	80	1
	a business plan, launching and running a				
	Business using innovation to meet customer				
	needs and to make a profit.				
	a) Business Studies				
	b) Entrepreneurship				
	c) Business mind				
	ANS: Entrepreneurship.				
vi.	is a rectangular block of	CBSE STUDY MATERIAL	3	46	1
•	contiguous cells, i.e., cells that touch each			-10	-
	other, especially along a line				
	a) Toolbar				
	b) Range			1	
	c) Standard bar				
	ANS: Range			1	
Q. 2	Answer any 5 out of the given 7 questions (1 x	5 = 5 marks)		1	
<u>ų. z</u> i.	Write down the full form of CBC.	CBSE STUDY MATERIAL	1	9	1
1.	a) Common blood count	CDSL STODT WATERIAL	1	9	1
	b) Complete blood count				
	c) Complete blood count				
ii.	ANS: Complete blood count	CBSE STUDY MATERIAL	1	11	1
п.	Name the anticoagulant that is best to use for coagulation studies.		1	11	L
	0				
	a) EDTA b) Tricodium Citrato				
	b) Trisodium Citrate				
	c) Heparin ANS: Trisodium Citrate				
iii.			1	21	1
	What do you mean by MCHC? a) Major Corpuscular hemoglobin	CBSE STUDY MATERIAL	-	31	1
	Concentration			1	
	b) Mean Corpuscular hemoglobin			1	
	Concentration			1	
	c) Major Cellular hemoglobin Concentration			1	
	ANS: Mean corpuscular haemoglobin				
•	concentration		1	24	-
iv.	What do you mean by MCH?	CBSE STUDY MATERIAL	1	31	1
	a) Mean Corpuscular hemoglobin			1	
	b) Major Corpuscular hemoglobin			1	
	c) Major Cellular hemoglobin			1	
	ANS: Mean corpuscular haemoglobin				_
۷.	In which condition decreased osmotic fragility	CBSE STUDY MATERIAL	1	40	1
	is seen?			1	
	a) Congenital spherocytosis				
	b) Thalassemia			1	
	c) Autoimmune hemolytic anemia			1	
	ANS: Thalassemia				
vi.	Write down the full form of PCV.	CBSE STUDY MATERIAL	1	30	1
	a) Pus cell Volume			1	
		1	1	1	1

	c) Packed cell Volume				
	ANS: Packed cell volume				
vii.	Name the instrument to separate solution into	CBSE STUDY MATERIAL	1	10	1
	sediment and supernatant by using required				
	speed.				
	a) Centrifuge				
	b) Microscope				
	c) Hemocytometer				
	Ans. Centrifuge				
Q. 3	Answer any 6 out of the given 7 questions (1 x	6 = 6 marks)			
<u></u> i.	Name one commonly used method to	CBSE STUDY MATERIAL	1	32	1
	measure ESR.		-	02	-
	a) Benedict's test method				
	b) Fehling's test method				
	c) Westergren's Method.				
	ANS: Westergren's Method				
ii.	is the ideal fixative used for	CBSE STUDY MATERIAL	3	90	1
	cell block preparation of fluid specimens.		5	50	-
	a) Formalin				
	b) AAF Fixative				
	c) Xylene				
	ANS: AAF Fixative		4	10	
iii.	Which is a better RBC diluting fluid if one	CBSE STUDY MATERIAL	1	19	1
	wants to prevent rouleux formation?				
	a) Hingleman's solution				
	b) Toisson's fluid				
	c) Gower's Solution				
	ANS: Gower's Solution				
iv.	What do you mean by Hematopoiesis?	CBSE STUDY MATERIAL	1	40	1
	a) An increase in platelet count				
	b) Production of blood cells				
	c) An increase in WBC count				
	ANS: Production of blood cells				
۷.	Who discovered Rhesus blood group system?	CBSE STUDY MATERIAL	2	74	1
	a) Land Steiner and Wiener				
	b) Thompson				
	c) Charles Darwin				
	ANS: Land Steiner and Wiener		L		
vi.	The titer of an antibody is usually determined	CBSE STUDY MATERIAL	2	76	1
	by testing two fold serial dilution of the				
	serum against selectedcells.				
	a) Red				
	b) White				
	c) Blue				
	ANS: Red				
vii.	Name two antigens of kidd blood group	CBSE STUDY MATERIAL	2	73	1
	system.				
	a) Jkd and Jke				
	b) Jkm and Jkn				
	c) Jka and Jkb				
	Ans. Jka And Jkb				
Q. 4	Answer any 5 out of the given 6 questions (1 x	5 = 5 marks)	•		I
<u> </u>	is defined as clumping of	CBSE STUDY MATERIAL	2	67	1
-	particles that have antigen on their surface				
	and is brought about by anti-bodies.				

	a) Agglutination				
	b) Hemolysis				
	c) Reaction				
	ANS: Agglutination				
ii.	develop due to immunization	CBSE STUDY MATERIAL	2	76	1
	following pregnancy, previous transfusion or		-	/0	-
	deliberate injection of immunogenic material.				
	a) Ig G				
	b) Ig M				
	c) Ig E				
	ANS: lg G				
iii.	are serum proteins, more	CBSE STUDY MATERIAL	2	67	1
	specifically immunoglobulins.	CDSE STODT WATERIAL	2	07	1
	a) Antigens				
	b) Antibodies				
	c) Pathogen				
	ANS: Antibodies				
			1	20	1
iv.	An increase in lymphocyte count above	CBSE STUDY MATERIAL	1	39	1
	normal reference range is known as				
	a) Lymphocytosis				
	b) Lymphopenia				
	c) Lymphoedema				
	ANS: Lymphocytosis				
v.	What are the antigens of Lutheran system?	CBSE STUDY MATERIAL	2	74	1
	a) Lu m and Lu n				
	b) Lu c and Lu d				
	c) Lu a and Lu b				
	ANS: Lu a and Lu b				
vi.	Write down the full form of ELISA.	CBSE STUDY MATERIAL	2	66	1
	a) Enzyme linked immunosorbent Assay				
	b) Energy linked immunosorbent Assay				
	c) Evolution linked immunosorbent Assay				
	ANS: Enzyme linked immunosorbent Assay				
Q. 5	Answer any 5 out of the given 6 questions (1 x	-	1		
i.	What is the basic function of autoclave in	CBSE STUDY MATERIAL	2	61	1
	laboratory?				
	a) Drying				
	b) Heating				
	c) Sterilization				
	ANS: Sterilization				
ii.	is rupture of red cells with	CBSE STUDY MATERIAL	2	66	1
	release of intracellular haemoglobin can				
	occur if the Antibody has the property of				
	hemolysin.				
	a) Agglutination				
	b) Hemolysis				
	c) Reaction				
	ANS: Hemolysis				
iii.	Name one special purpose fixative used in	CBSE STUDY MATERIAL	3	90	1
	cytology laboratory.				
	a) AAF fixative				
	b) Carnoy's fixative				
	c) Formalin				

iv.	is a special purpose fixative for	CBSE STUDY MATERIAL	3	90	1
	haemorrhagic samples.				
	a) Carnoy's fixative				
	b) AAF fixative				
	c) Formalin				
	ANS: Carnoy's fixative				
ν.	Name the chemical which is used for	CBSE STUDY MATERIAL	3	89	1
	dehydration process.				
	a) Alcohol				
	b) Water				
	c) Xylene				
	ANS: Alcohol				
vi.	What do you mean by Cytology?	CBSE STUDY MATERIAL	3	82	1
	a) Study of tissue		_	_	
	b) Study of cells				
	c) Study of organ				
	ANS: Study of cells				
Q. 6	Answer any 5 out of the given 6 questions (1)	(5 = 5 marks)			
<u>z. u</u> i.	Write down full form of FNAC.	CBSE STUDY MATERIAL	3	87	1
••	a) Fine needle aspiration cytology			57	1
	b) Free needle aspiration cytology				
	c) Fine needle activation cytology				
ii.	ANS: Fine needle aspiration cytology	CBSE STUDY MATERIAL	3	85	1
п.	is strictly for taking materials from	CBSE STUDY WATERIAL	3	85	1
	endocervix.				
	a) Endo-cervical brush				
	b) Exo-cervical brush				
	c) Endo-cellular brush				
	ANS: Endo-cervical brush		2		
iii.	It is important that no air-drying occurs prior	CBSE STUDY MATERIAL	3	89	1
	to				
	a) Fixation				
	b) Dehydration				
	c) Clearing				
	ANS: Fixation				
iv.	By which process Respiratory tract	CBSE STUDY MATERIAL	3	85	1
	malignancies can be detected?				
	a) By sputum cytology or by bronchoscopic				
	material				
	b) By CSF cytology or by bronchoscopic				
	material				
	c) By sputum cytology or by Endoscopic				
	material				
	ANS: By sputum cytology or by				
	bronchoscopic material				
٧.	Name one routine fixative that was originally	CBSE STUDY MATERIAL	3	89	1
	recommended by Papanicolaou.				
	a) Carnoy's Fixative				
	b) AAF Fixative				
	c) Ether alcohol mixture				
	ANS: Ether alcohol mixture				
vi.	Name one clearing agent used in laboratory.	CBSE STUDY MATERIAL	3	89	1
	a) Formalin		-		-
	b) Water				
	c) Xylene				
		1	1	1	1

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ANS: Xylene

SECTION B: SUBJECTIVE TYPE QUESTIONS

Q.		Source Material	Unit/	Page no.	
ц. No.	QUESTION	(NCERT/PSSCIVE/	Chap.	of source	Marks
NO.		CBSE Study Material)	No.	material	
Answe	er any 3 out of the given 5 questions on Employ	ability Skills in 20 – 30 w	vords each	(2 x 3 = 6 m	arks)
Q. 7	Write down the function of scan option.	CBSE STUDY	3	59	2
	ANS: This option provides various scanning	MATERIAL			
	options, like, Full System Scan, Custom				
	Scan, Memory Scan, Mobile scan and Boot				
	Time Scan.				
	½ x4=2				
Q. 8	List any four characteristics of	CBSE STUDY	4	80	2
	entrepreneurship.	MATERIAL			
	ANS: 1. Ability to take up risks and Financial				
	literacy and money management skills.				
	2. Believe in hard work and discipline and				
	Effective planning and execution.				
	3. Adaptable and flexible to achieve the				
	goals of enhancing quality and customer				
	satisfaction				
	4. Knowledge of the product and services				
	and their need or demand in the market.				
	½ x 4=2				
Q. 9	Enumerate four steps of time management.	CBSE STUDY	4	104	2
	ANS: 1 Organiza	MATERIAL			
	ANS: 1. Organize				
	2. prioritize				
	3. Control				
	4. Track				
	½ x 4=2				
Q. 10	What are the steps of deleting a data in a	CBSE STUDY	3	46	2
	cell?	MATERIAL			
	ANS: 1. Click on the cell.				

6

	 Press Delete key on the keyboard. This deletes the text entry of that cell making it blank. 1+1=2 				
Q. 11	List any four common personality disorders. ANS: 1. Paranoid	CBSE STUDY MATERIAL	2	34-35	2
	2. Antisocial				
	3. Schizoid				
	4. Borderline				
	5. Narcissistic				
	6. Dependent (Any 2)				
	½ X 4 = 2				
Answe	er any 3 out of the given 5 questions in 20 – 30 v	words each (2 x 3 = 6 n	narks)		
Q. 12	 Write down the advantages of Evacuated Tube System. ANS: 1. Adequate sample is ensured (vacuum in the tube controls the amount of blood entering the tube.) 2. Correct ratio of anticoagulant to blood is ensured. 3. This is a closed system and spillage of blood and hence any Bio-hazard is thus avoided. 	CBSE STUDY MATERIAL	1	15	2
	4. Large amounts of blood (in multiple tubes) can be collected with minimum discomfort to patient. ½ x 4=2				
Q. 13	What do you mean by neutrophilia and neutropenia?	CBSE STUDY MATERIAL	1	37	2
	ANS: Neutrophilia: It refers to an increase in the number/percentage of neutrophils in the blood.				
	Neutropenia: It refers to a decrease in the number of neutrophils in the blood.				
	2 x 1=2				

Q. 14	Write down the importance of blood storage cabinets.	CBSE STUDY MATERIAL	2	59	2
	ANS: 1. Uniform temperature between 2 degree C – 6 degree C (in AC room)	MATERIAL			
	2. Stainless steel inner chamber and Inside				
	 acrylic door to avoid temperature loss 3. Digital temperature indicator cum controller with audio visual alarm 4. Full view glass doors for observation without disturbing the inside conditions. 				
	½ x 4=2				
Q. 15	Explain two types of process that can be done by using cell separator.	CBSE STUDY MATERIAL	2	58	2
	ANS: Continuous flow: It is a two-arm procedure where in blood is drawn from one arm. The components are separated in a cart rid & the remaining cells & plasma				
	flow back to the donor through the other area. Here the volume of blood which is outside the body is very small.				
	Interrupted flow: This is a one arm process. One line is connected to the donor the blood will be coming out after processing				
	components will be separator, remaining required plasma & RBC's will be reinfused back to the donor with same line and this				
	process will takes little longer time than the continuous flow.				
	2 x 1=2				
Q. 16	How endometria aspiration smear can be made?	CBSE STUDY MATERIAL	3	85	2
	ANS: Endometria aspiration smear: After preliminary visualization and cleaning of cervix a sterile cannula is introduced into the uterine cavity and aspiration is then carried out with a syringe. The specimen is				
	squirted on a clean glass slide, gently spread and rapidly fixed.				
	2 x 1=2				

Q. 17	Enumerate three stages of ESR experiment. ANS: Sedimentation is defined as settlement of red cells to the bottom with	CBSE STUDY MATERIAL	1	32	3
	an upper plasma layer when anti				
	coagulated blood is kept undisturbed for a				
	period of time. There are three stages in				
	which this occurs: 1) The stage of				
	aggregation - This is the first stage when				
	the red cells form rouleaux and is the most				
	important stage in sedimentation. 2) Stage				
	of sedimentation - is the phase of actual				
	falling of the cells, the larger the aggregates				
	formed in stage I, the faster the rate of fall.				
	This is related to both weights to surface				
	area. 3) The stage of packing - is the final				
	one when individual cells and aggregates				
	slow down due to crowding.				
	3x1=3				
Q. 18	Enumerate any six features of cold	CBSE STUDY	2	57-58	3
-	centrifuge.	MATERIAL			
	ANS: Features of cold centrifuge:				
	1. Digital speed indicator				
	2. Stepless speed regulator with 'O' start switch				
	3. Digital automatic timer				
	4. Dynamic break				
	5. Digital temperature indicator cum controller 6. Unbalance cut out switch				
	½ x 6= 3				
Q. 19	Enlist the indications of FNAC. Outline its	CBSE STUDY	3	87	3
	methodology.	MATERIAL			
	ANS:				
	INDICATIONS:				
	Aspiration is done using disposable needles				
	of 21 gauge (external diameter				
	approximately 0.6-1.0mm) attached to a				
	20ml syringe.				

• The FNAC needles are available in a	
variety of lengths. Lenghts of a to 1/2	
inches are found to be adequate for most	
palpable measses.	
• The 31/2 inches 22 gauge disposable	
needle is used fordeep seated soft-tissue	
masses.	
Ultrasound or computerized tomography	
(CT) guidance can be utilized, whenever	
indicated.	
1	
METHODOLOGY:	
Taking all aseptic precautions, the lump is	
palpated and localized, and the site of	
puncture determined.	
• The lump is then immobilized with the	
left hand in a position favorable for needle	
aspiration and holding the syringe by the	
barrel in the right hand; the needle is	
pushed into predetermined site of the lump	
until needle tip penetrates the center of the	
lump.	
 The plumger of the needle is then 	
retracted backward to create a negative	
pressure inside the syringe and needle	
bore; and without withdrawing the needle	
through the skin, the syringe is rotated and	
moved in and out through the lump whilst	
negative pressure sucks cells into the lumen	
of the needle.	
 In order to obtain sufficient material, 	
particularly from fibrotic lesions, the needle	
is moved back and forth three or more	
times and directed into different areas of	
the tumor.	
 Throughout this manipulation, negative 	
pressure is maintained in the syringe by	
keeping the piston retracted.	
After completion of the aspiration, the	
pressure in the syringe is allowed to	

	equalize before the needle is withdrawn				
	from the lesion.				
	• This is achieved by releasing the piston of				
	the syringe. After the needle had been				
	withdrawn, the syringe is disconnected				
	from the needle, filled with air and				
	reconnected.				
	• The material in the needle is expelled				
	onto a glass slide, care being taken to				
	deposit it as a single drop at one end of the				
	slide.				
	• The needle tip is then brought into light				
	contact with the slide and the aspirate				
	carefully expressed from it.				
	2				
Answe	er any 3 out of the given 5 questions in 50– 80 we	ords each (4 x 3 = 12	marks)		
Q. 20	How the microscope can be handled	CBSE STUDY	2	62	4
	properly in laboratory?	MATERIAL			
	ANS: This instrument helps us to examine				
	tiny objects which cannot be visualized with				
	the naked eye. It is a delicate instrument				
	and needs utmost care.				
	a) Cleaning of objective and eyepiece				
	should be done regularly and they should				
	be kept free from dust. The optical part is				
	cleaned to remove grease using soft cloth				
	or lens paper.				
	P.F.				
	b) Hold the microscope firmly while				
	b) Hold the microscope firmly while				
	b) Hold the microscope firmly while moving it to prevent the lenses from				
	b) Hold the microscope firmly while moving it to prevent the lenses from dropping down.				
	 b) Hold the microscope firmly while moving it to prevent the lenses from dropping down. c) Exposure to sunlight should be avoided 				
	 b) Hold the microscope firmly while moving it to prevent the lenses from dropping down. c) Exposure to sunlight should be avoided and it should be kept at room temperature. 				
	 b) Hold the microscope firmly while moving it to prevent the lenses from dropping down. c) Exposure to sunlight should be avoided and it should be kept at room temperature. d) After one use oil immersion, one must 				
0, 21	 b) Hold the microscope firmly while moving it to prevent the lenses from dropping down. c) Exposure to sunlight should be avoided and it should be kept at room temperature. d) After one use oil immersion, one must always clean the oil from the objective. 4 x 1=4 	CBSE STUDY		45-46	4
Q. 21	 b) Hold the microscope firmly while moving it to prevent the lenses from dropping down. c) Exposure to sunlight should be avoided and it should be kept at room temperature. d) After one use oil immersion, one must always clean the oil from the objective. 	CBSE STUDY MATERIAL	1	45-46	4
Q. 21	 b) Hold the microscope firmly while moving it to prevent the lenses from dropping down. c) Exposure to sunlight should be avoided and it should be kept at room temperature. d) After one use oil immersion, one must always clean the oil from the objective. 4 x 1=4 How the bleeding time can be measured by 		1	45-46	4
Q. 21	 b) Hold the microscope firmly while moving it to prevent the lenses from dropping down. c) Exposure to sunlight should be avoided and it should be kept at room temperature. d) After one use oil immersion, one must always clean the oil from the objective. 4 x 1=4 How the bleeding time can be measured by 		1	45-46	4

	4. minunology and genetics 4 x ½=2				
	 Medicolegal and forensic, paternity disputes Immunology and genetics 				
	2. Organ transplant especially liver, heart and kidney				
	1. Safe blood transfusion				
	The importance of blood grouping:				
	field of medicine. 2				
	of the most important discoveries in the				
	antigens in 1900 and since then this is one				
	Landsteiner discovered the ABO group				
	blood grouping system.	MATERIAL			
ຊ. 22	Who discovered ABO blood grouping system? Write down the importance of ABO	CBSE STUDY	2	68-70	4
	4 x 1=4				
	are reported.				
	are noted and average of the two results				
	• Bleeding times of the two puncture sites				
	bleeding stops, the watch is stopped, time noted and BP cuff released.				
	process of platelet plug formation). When				
	wound. (As this may interfere with the				
	The filter paper should not touch the				
	 Blood is blotted from each puncture site on a piece of filter paper every 15seconds. 				
	deep, 1mm wide are made and stop watch started.				
	skin punctures, 5 - 10 cm apart 2.5 mm				
	area is allowed to dry and there will be 2				
	veins) and cleaned with spirit swab. The				
	 An area is selected on the volar surface of the forearm (devoid of any superficial 				
	pressure is kept for the entire procedure.				
	Pressure is increased to 40 mm Hg. This				
	about 2 to 3 inches above the elbow joint.				

Q. 23	Enumerate two major categories of	CBSE STUDY	3	82	4
	cytological sample that are examined in	MATERIAL			
	laboratory.				
	ANS: Two broad categories of samples are				
	received in the cytology laboratory: 1.				
	Exfoliative cytology: It is the study of cells				
	that have been shed or removed from the				
	epithelial or mesothelial linings. Normal				
	cells are cohesive in nature, but malignancy				
	and infection increase exfoliation.				
	Malignant cells show reduced intercellular				
	adhesion due to defective desmosomes.				
	These cells can be recovered either from				
	natural secretions. Such as urine, sputum,				
	vaginal, and prostatic fluids, or by artificial				
	means, such as paracentesis or lavage of				
	fluids like pleural, pericardial,				
	cerebrospinal, synovial, ascetic, CSF, cyst				
	fluid, bronchial washings etc.				
	2. Fine needle aspiration cytology includes				
	aspiration done by the pathologist or the				
	clinician as well as guided aspiration done				
	by the radiologists and aspirations. It is a				
	diagnostic procedure used to investigate				
	pathological lesions in organs that do not				
	shed cells spontaneously. In this technique,				
	a thin, hollow needle is inserted into the				
	lesion (usually a lump or a swelling) to				
	obtain cells and tissue fragments, which,				
	after being stained, are examined under a				
	microscope.				
	2x2=4				
Q. 24	Enumerate the functions of four special	CBSE STUDY	3	90-91	4
	purpose fixatives	MATERIAL			
	ANS: • Carnoy's fixative: This is a special				
	purpose fixative for haemorrhagic samples.				
	The acetic acid in the fixative haemolyses				
	the red blood cells. It is an excellent nuclear				
	fixative as well as preservative for glycogen				
	but results in considerable shrinkage of				
	cells. Carnoy's fixative must be prepared				
	fresh when needed and discarded after				
	each use. It loses its effectiveness on long				

standing, and ch	loroform can react with		
acetic acid to for	m hydrochloric acid.		
• AAF Fixative:	This is the ideal fixative		
used for cellbloc	k preparation of fluid		
specimens.			
• Saccomanno d	collection fluid: A green		
coloured fixative	e of the collection of		
sputum.			
• Cytolyt solutio	n: This is a clear water		
based buffered	ixative for the collection of		
fluid specimens.	A 50:50 ratio of specimen		
to fixative is app	propriate (if this unavailable		
use 50% alcohol).		
	4 x1=4		