S.S.R. DEGREE COLLEGE, (AUTONOMOUS) NIZAMABAD (C.C:5029)

I SEMESTER INTERNAL ASSESSMENT I EXAMINATIONS PAPER – III, CLINICAL LABORATORY PRACTICE (MLT) QUESTION BANK

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I. Mul	tiple Choice Questions			
1.	Which of the following is a primary and A. Reducing staff workload	goal of laboratory maintenance?	()
	B. Ensuring equipment longevity			
	C. Increasing patient admission			
2	D. Promoting laboratory automation		,	,
2.	A. 0°C B. 2–8°C C. 25–	toring most reagents in a clinical laboratory? 30°C D20°C	()
3.	Which type of water is typically used	d for reagent preparation in laboratories?	()
	A. Tap water	B. Distilled water		
	C. Deionized water	D. Rainwater		
4.	A biosafety cabinet must be cleaned	d using:	()
	A. Alcohol-based sanitizer	B. Soap and water		
	C. Disinfectant like 70% ethanol	D. Tap water only		
5.	Calibration of laboratory equipmen	t is done to:	()
	A. Change machine parts	B. Improve appearance		
	C. Ensure accuracy and precision	D. Save electricity		
6.	What is the first step in routine equi	pment maintenance?	()
	A. Lubrication	B. Calibration		
	C. Powering off the equipment	D. Cleaning		
7.	Autoclaves are maintained by monit	oring:	()
	A. Gas level	B. Pressure and temperature		
	C. Voltage supply	D. Vibration level		
8.	Which of the following is a prevention	ve maintenance activity?	()
	A. Replacing a broken rotor	B. Cleaning the microscope lens		
	C. Fixing a damaged pipette	D. Ignoring minor faults		
9.	The term "preventive maintenance"	refers to:	()
	A. Emergency repair			
	B. Routine service to prevent failure	S		
	C. Calibration of balances			
	D. Equipment disposal			
10	. To prevent contamination, work sur	faces should be disinfected:	()
	A. Monthly	B. Before and after each shift		
	C. Only after spills	D. Once a week		
11	. What is the role of a UPS in the labo	ratory?	()
	A. Provides additional storage	B. Maintains temperature		
	C. Supplies backup power	D. Enhances internet speed		
12	. Which of the following documents is	s essential for equipment maintenance?	()
	A. Attendance sheet	B. Maintenance logbook		
	C. Lab timetable	D. Incident report		

13.	Which PPE is essential during clean	ing of chemical spills?	()
	A. Face mask	B. Safety goggles		
	C. Gloves and lab coat	D. All of the above		
14.	What should be done before dispos	ing of expired reagents?	()
	A. Flush into sink			
	B. Neutralize and discard properly			
	C. Ignore expiry			
	D. Use anyway			
15.	Fire extinguishers in laboratories she	ould be:	()
	A. Replaced annually	B. Checked monthly		
	C. Only used during drills	D. Kept outside the lab		
16.	The best way to clean microscope le	enses is with:	()
	A. Cotton and water	B. Tissue paper		
	C. Lens paper and lens cleaner	D. Alcohol wipes		
17.	The color-coded bin for sharp waste	e is:	()
	A. Red B. Blue	C. Yellow D. White		
18.	How often should pipettes be calibr	ated in clinical labs?	()
	A. Every day	B. Weekly		
	C. Monthly	D. Periodically as per usage and SOP		
19.	Which of the following is NOT a mai	ntenance activity?	()
	A. Cleaning	B. Lubricating		
	C. Improper storage	D. Replacing filters		
20.	Which chemical is commonly used f	or disinfecting work areas?	()
	A. Acetone	B. Sodium hypochlorite		
	C. Nitric acid	D. Formalin		
21.	What is the main purpose of Standa	rd Operating Procedures (SOPs)?		
			()
	A. Reduce employee salary	B. Maintain consistency and safety		
	C. Increase patient turnover	D. Simplify billing		
22.	How often should refrigerators stor	ring biological samples be monitored?	()
	A. Once a day B. Weekly	C. Monthly D. Yearly		
23.	An instrument showing inconsisten	t results should be:	()
	A. Ignored	B. Used as-is		
	C. Reported and serviced	D. Recalibrated by a student		
24.	Which of the following ensures safe	ty in handling biohazardous materials?	()
	A. Color-coded bins	B. Proper labeling		
	C. PPE	D. All of the above		
25.	Who is responsible for laboratory n	naintenance?	()
	A. Only the lab manager	B. External maintenance team		
	C. Every lab staff member	D. Only equipment vendors		
FILL	IN THE BLANKS			
1	The process of ensuring that laborate	tory results are accurate and reliable is calle	ad	
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	In the clinical laboratory, PPE stands The universal precautions recomme	nd that all human specimens be treated as	if thou	are
٥.	The universal precautions recomme	ma mat an numan specimens be treated as	пшеу	aie
<u>/</u> 1	The liquid portion of blood after clo	tting is called		
	The liquid portion of anticoagulated			
	The acronym <i>SOP</i> stands for			
		 nents of blood by spinning is called a		

II.

8.	The concentration of hydrogen ions in a solution is expressed as
9.	The normal body temperature in Celsius is approximately
10.	The primary purpose of a biosafety cabinet is to protect the
11.	The waste from a microbiology lab containing infectious agents should be autoclaved at
	°C for minutes.
12.	The internationally recognized symbol for biological hazards is called the symbol.
13.	In hematology, EDTA acts as an
14.	In serology, the test used to detect HIV antibodies is called
15.	The process of comparing a measurement to a known standard is called
16.	In microscopy, the lens closest to the specimen is called the lens.
17.	The most common temperature for incubating bacterial cultures is °C.
18.	In a chemical laboratory, acids should always be added to and never the reverse.
19.	The process of removing all forms of life, including spores, is called
20.	The quality assurance program that monitors the entire testing process is abbreviated as
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21.	In the laboratory, the abbreviation MSDS refers to
22.	The branch of laboratory science dealing with blood group determination is called
23.	The term used for the smallest amount of a substance that can be reliably measured is
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24.	The layer of white cells seen between plasma and red cells after centrifugation is called the
	coat.
25.	The purpose of running control samples alongside patient samples is to ensure of
	results.

III. Descriptive Questions

- 1. Why is regular calibration of laboratory equipment important, and how often should it be performed?
- 2. List three preventive maintenance steps for a laboratory centrifuge.
- 3. What is the recommended procedure for cleaning and disinfecting a biosafety cabinet after use?
- 4. Explain the importance of maintaining proper temperature in laboratory refrigerators and freezers.
- 5. Why should laboratory instruments be serviced only by trained personnel, and what risks occur if untrained staff attempt repairs?