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**MATRIC NO: 17/mhs06/022**

**MLS 304 LABORATORY INSTRUMENTATION AND TECHNIQUES**

**Question**

Describe how you can maintain the automatic analysers in ABUAD multi system hospital and keep them in good condition. Please post your answers on this platform.

**Answer**

1. Thorough Cleaning With the Proper Materials.

2. Regular Calibration of Equipment:

The goal of calibration is to minimise any measurement uncertainty by ensuring the accuracy of test equipment. Calibration quantifies and controls errors or uncertainties within measurement processes to an acceptable level.

3. Always observe the shutdown procedure

4. Regularly clean the external body of the machine

5. Clean the device before and after the analysis with distilled water

6. Clean the device with the recommended cleaning solution

7. Wipe off any traces of blood

8. Check if there are no air bubbles in the reagent tubing

9. Always check reagent leaks in the hydraulic circuit

10. check for air or vacuum leakage in the circuit

11. Avoid sudden shutdowns

12. Repairing:

Conducting small repairs, such as installing

replacement parts, as and when they are needed can elongate the functional life of larger pieces of laboratory equipment significantly.

When it comes to larger pieces of equipment, some parts will accrue wear more rapidly than

others. Pay close attention to which parts of your equipment are showing signs of wear and

embark upon a program of preventative maintenance.

13. Refurbishing:

Refurbishing refers to the process of dismantling pieces of laboratory equipment and

cleaning each component part thoroughly. Metal elements are also polished and any pipette

pistons can be lubricated. Refurbishing at regular intervals will extend the life of your

laboratory equipment and increase its efficiency and functionality.