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Section : (A)

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LAB Assignment : (microbiology)

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(QNO) (1) : write the names and function of different equipments used in microbiology lab ?

(ANS) : Equipment # 1. Balance:

A balance is used to find out the mass of a substance by comparing it with known masses. These are used to weigh the chemicals accurately.

● Equipment # 2. Centrifuge:

They are designed to accurate the sedimentation process by using centrifugal force...

● Equipment # 3. Hot Air Oven:

This kind of dry heat sterilization is recommended when it is undesirable that steam make contact with the material to be sterilized...

● Equipment # 4. Incubators:

The incubator operates with a thermostat that keeps the temperature of the air at a constant, adjustable value....

● Equipment # 5. Water Bath:

It is used to carry out various chemical reactions at specific temperature...

● Equipment # 6. Microscope:

A Microscope is used to study proper and enlarged and well defined images of object, too small to be observed with naked eyes....

● Equipment # 7. Autoclave:

Autoclaving is one of the technique used in moist heat sterilization.....

● Equipment # 8. Laminar Flow:

Laminar flow hoods are essential machines to medical research....

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(QNO) (2) : what are the different chemical and physical methods of sterilization and disinfection ?

(ANS) : Chemical Method:-

Steam under pressure, dry heat, EtO gas, hydrogen peroxide gas plasma, and liquid chemicals are the principal sterilizing agents used in health-care facilities. ... A few disinfectants will kill spores with prolonged exposure times (3–12 hours); these are called chemical sterilants.....

● Physical Methods:-

Heat (Dry and moist)

• Sunlight

• Vibration

• Radiation

• Filtration

Heat is considered to be most reliable method of sterilization of objects that can withstand heat.

Heat as Moist and Dry heat are the most common sterilizing methods used in hospitals and are indicated for most materials....

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