CALCULUS EDUCATIONAL CONSULTS

MAINLAND LECTURE CENTER

BIO191: GENERAL PRACTICAL BIOLOGY

___is the first thing to do when you have brought your specimens, into thelaboratory
Identification

___is an electrically operated equipment designed to provide a controlled temperature for the growth and development of microorganisms in culture media
incubator

___is used for cutting specimens/small bone
Scissors

___is used for cutting or making an incision on a specimen
Scalpels

_____is used for magnifying the details of specimens
Hand lens

_____is used for probing into the animal being dissected without causing displacement of the organs
Seekers

___is used for making sections or cutting bones
Pen-knife opened

_____is used for pining/lifting specimens
Mounted needle

Fungi are plants that do not posses chlorophll so They cannot make their food and so are either saprophytic or parasitic

Angiosperms are divided into **two** groups namely_____
monocotyledonous and the dicotyledonous

Chlamydomonas are single-celled green flagellates while **Volvox** is an example of colonial phytoflagellate that forms a hollow spheroid with several thousand cells embedded in its mucilaginous wall.

Physiological saline is used for rinsing blood and debris from tissues before placing them in the fixative

Ringer's solution is used for moistening tissues which must be kept for some period of time before fixation or for small animals or tissue study which need to be observed in the living state

Photosynthesis is a process by which green plants make carbohydrates, sugar and starch from C02 and H2O using light energy absorbed by chlorophyll.

A **kymograph** apparatus consists of a vertical cylindrical drum which can be made to rotate at a variety of speeds by an electric motor
___means to cut open the animal in order to ascertain the structure of its parts
dissection

Before dissection, animals are given _____
anaesthesia

Chloroform and either are used as anaesthesing agents.

Fishes are the largest group of vertebrates

there are_____classes of fish
two

Osteichthyes are also called_____
bony fish

Chondricthyes are also called_____
Cartilaginous fishes

Tilapia is a tropical and subtropical bony fish which live in fresh water and estuarine waters of Africa

The female Agama agama is easily distinguished with its
Ans: green

_____are words to describe your drawings
Ans: Labellings

A thin section of water leaf stem can be made with a _____or microtome
Ans: razor blade

Bacteria cells are classified on the basis of their reactions to_____stain
Ans: Gram's

Required temperature in ovens and water baths is maintained by a_____
Ans: thermostat

The structure of an organism is also called _____
Ans: morphology

Metal cans are sterilized in the lab using _____
Ans: autoclave

You pick the skin of an animal with a _____
Ans: forcep

Dissected animals are disposed in the laboratory by _____
Ans: burning

You want to indicate how big the specimen you have drawn is in relation to your drawing by way of _____
Ans: magnification

A cross section across a root can be viewed with a _____
Ans: microscope

The scientific name of rat is _____
Ans: Rattus rattus

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The pH of a medium is usually adjusted in the lab by adding HCl or_____
Ans: NaOH

_____water is used for running experiments in the laboratory
Ans: Distilled

A piece of potato in Petri dish and a drop of iodine added is testing for _____
Ans: starch

Animals are dissected in_____in the laboratory
Ans: trays

A_____is used to measure the rate of loss of water by plants in the laboratory
Ans: photometer

Bony fish possess mainly bony_____and_____skeleton
Ans: exo,endo

In anaesthesizing animals,_____and ether are used as anaesthesing agents.
Ans: chloroform

A spinal frog, one in which the entire brain is destroyed, is prepared by a procedure knownas _____
Ans: pithing

The female Agama agama is easily distinguished with its
Ans: greenish head

A lab coat is_____:
Ans: Protective

The ultra structure of an object is best seen with the aid of
Ans: Electron microscope

When an object is seen clearly under the microscope, it is said to be
Ans: In focus

The light microscope uses
Ans: Sunlight source

The microscope is
Ans: All of the above

The slide is mounted on the microscope on the
Ans: Stage

You look into the microscope through the
Ans: Eyepiece

All the under listed are parts of the microscope except
Ans: Electric handle

Which of the following does not belong to the microscope group?

Ans: Concave lens

The best anaesthesizing agent in the laboratory is
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Why is it that you do not drink or eat in the lab?
Ans: To avoid poisoning

Why should books, notes and purses be kept in designated places in the lab?
Ans: To avoid disturbance

When a display is ready, it is pasted in the
Ans: Open lab walls and doors

You write instructions for display in the laboratory using
Ans: A colour pen

You display instructions in the labouratory using
Ans: A chart paper

In the study of biology, which of these statements is true?
Ans: Practical's should go hand-in-hand with theory

Which of the following is critical for good drawings?
Ans: Sharp pencil

In practical biology, you ----------
Ans: Follow tutors instructions

Field study is carried out in the study of biology to ----------
Ans: All of the above

Which of these statements is correct about biological drawings?
Ans: Drawing should not be too small or too big

Magnification of biological drawing is ----------
Ans: Expression of the actual size of specimen in mathematical term

When you make a cut on a fruit from top to bottom along its length, it is also called
Ans: Longitudinal section

Which of the following items is out of place in the report of your experiments
Ans: None of the above

One of the following is not a laboratory equipment
Ans: Slide cabinet

Which of these is not a glassware?
Ans: pH meter

Which of the following equipment utilizes steam for sterilization?
Ans: Autoclave

Which of these items of the laboratory is out of place in the group?
Ans: Hot plate

In the laboratory disposal of spent materials are done on ----------
Ans: The incinerator

To display general instructions in the laboratory, which of the following factors should be least considered?
Ans: Wordings

The labels of stock solutions in the laboratory should contain all except one of these information
Ans: Name of person that prepared it

In the operation of an autoclave when the discharge outlet valve is closed,---------- minutes are needed for sterilisation?
Ans: 20

The operational range of temperature in an incubator is between ----------
Ans: 22-50°C

The culture of microorganisms is best done in the laboratory using
Ans: Laminar flow

Dissecting trays contain----------
Ans: Wax

Used culture plates are better sterilized in the laboratory using----------
Ans: Autoclave

The Transverse Section (TS) of the stem of water leaf is made in the lab using
Ans: A razor blade

The Pteridophytes are ---------- producing vascular plants
Ans: Spore

An aspirator has_____tubes
Ans: Three

An aspirator is a device used for collection of_____
Ans: Small insects

The male Agama agama is easily distinguished with its
Ans: Red head

The African toad protects itself when handled by the production of whichfluid_____
Ans: Milky

In the African toad, the snout of the head is ----------
Ans: Rounded

In T.zilli the anal fin located----------
Ans: Posteriorally

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When viewed from the side, the head of T.zilli is what shape?
Ans: Triangular

Tilapia zilli belongs to the Order
Ans: Perciformes

_____constitute the largest number of living vertebrates
Ans: The bony fish

The essence of dissecting an animal or insect is
Ans: To display the internal organs/system

To maximize the light gathering ability of the microscope lens, you add_____between the object and the coverglass
Ans: Immersion oil

Which of the following statements is incorrect about a microscope?
Ans: It is kept in a damp place

Animals for dissection are held down on a board or tray with
Ans: Pins

You open up a rat with
Ans: Scissors

Wearing of a lab coat is
Ans: Professional

What is a lab coat?
Ans: A coat made of white material worn in the lab

Why is wearing of short in the lab not advisable?
Ans: To avoid injury

Talking in the lab might
Ans: Contaminate microbial experiment

If you eat in the lab, you are likely to
Ans: **Injure yourself and alter your results**

You avoid making noise in the lab because
Ans: **you will disturb others**

You do not smoke in the lab in order to avoid
Ans: **Fire**

You keep the lab clean in order to
Ans: **Avoid contamination**

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Ans: burning

You pick the skin of an animal with a_____"
Ans: forcep

Metal cans are sterilized in the lab using_____"
Ans: autoclave

The structure of an organism is also called _____
Ans: morphology

The stem of the pine is_____while that of the fern is underground
Answer: Aboreal

The figure shows the_____view of a well labelled rat
Answer: Ventral

A simple method widely used for the study of chromosomes is known as_____technique
Answer: Squash

Wet a piece of bread, cover and leave on the table for about six days. You will notice white (or silver) threads. This mass of thread is the mycelium of the _____
Answer: Mucor

This diagram best describes a _____
Answer: Pressure Cooker

If a kymograph's recordings are to be of any use, it is important to provide a_____scale
Answer: Time

Sterilization is very conveniently done in the Laboratories with the aidof _____
Answer: an autoclave

The diagram above can best be described as _____
Answer: hot air oven

Acetic acid and_____acid are most commonly used in technique procedures.
Answer: Nitric

The part labelled 3 in the diagram above isthe _____
Answer: Prism

Above is a schematic diagram of a horizontal_____unit.
Answer: laminar airflow

_____alcohol may be substituted for ethyl alcohol in the dehydration and hydration series
Answer: Isopropyl

The figure above describes a_____of the brain of a frog
Answer: Pithing

Brain lies on the_____side of the head, sub-oesophageal ganlion
Answer: Dorsal

The trunk of a fish bears how many pectoral fins?
Answer: Two

The figure above shows the internal_____of Agama
Answer: Anatomy

The leaves of the pine are needle-like or scale-like and covered with waxy _____
Answer: Cuticle

_____saline is used for rinsing blood and debris from tissues before placing them in thefixative
Answer: Physiological

The figure above shows the_____system of a male Agama
Answer: Urinogenital

After being killed, insects are pinned on the pinning board with the help of_____pins.
Answer: Entomological

An instrument used to demonstrate circulation of blood through capillaries in the web of a frog's foot is _____.
Answer: Kymograph

The part labelled 4 in the diagram above is the _____
Answer: Clamp screw

A place where plant specimens are kept, often in a dry state for biological studies is called _____
Answer: Herbarium

The whole process of a conversion factor applied to obtain the actual size of an object placed on a microscope slide is known as _____
Answer: Micrometry

_____media support large varieties of microbes especially fungi and are useful for routine laboratory cultures
Answer: Complex media

Who collects, procures and preserves animal specimens for Laboratory use?
Answer: Laboratory technician

Live animals are generally collected from_____and_____areas
Answer: Aquatic, land

This figure above describes the_____method for culturing microbes on the solid medium
Answer: Streaking

A device for measuring gas pressure is called a_____.
Answer: Manometer

The headline that runs across all the columns on top of a page is known as _____
Answer: Banner

The diagram shows the_____section of a Mango
Answer: Longitudinal

The diagram above describes the most commonly used _____
Answer: Aspirator

A technique for preparing slides of biological material is referred to as_____preparation.
Answer: Squash

The safe and most efficient (chemical) killing agent of insects is _____
Answer: ethyl acetate

A simple Manometer is also called a _____
Answer: Respirometer

The following are part of the activities in the organization of a laboratory except _____
Answer: None of the options

The following are laboratory safety general guidelines except _____
Answer: Do not perform authorized experiments

Which of the following is not a type of Autoclave?
Answer: Complex autoclave.

_____centrifuges should be used for most biological experiments
Answer: low-temperature

_____is/are used to examine various kinds of cells, tissues, and micro-organisms.
Answer: Optical and Light microscopes

Inability to obtain a sharp image in microscopes could be as a result of_____.
Answer: Optical and Mechanical causes

The operations in servicing a microscope involve all of the following steps except_____.
Answer: removal of optical components

Which of these accessories is used for collecting live animals for laboratory use?
Answer: All of the options

The method mainly used for collection of nocturnal insects like moths, midges and some beetles is_____.
Answer: Light trap

When growing materials for squash preparation, root tips may be obtained by allowing them to germinate on a _____blotting paper disc
Answer: wet

Bryophytes are collected by the following processes except_____.
Answer: Scrape the bryophytes from the place of occurrence.

The following are processes for the collection of Pteridophytes except_____.
Answer: Collect them from natural habitats in immature spore producing stage

Collection of gymnosperms involves all of the following except_____.
Answer: Collect the root, stem, leaves, male and female gametophytes of the plant and keep them in a
cupboard

In the collection of higher plants, you should:
Answer: choose only those plants whose organs are easily seen.

Which of the plants above can be said to be rich in protein?
Answer: a

Entomological pins are made of _____
Answer: Steel

_____method is mostly used for mounting small and dried insects.
Answer: Point mounting

Once specimens are collected and spread, they should be given_____labels
Answer: permanent

Proper mounting, spreading and displaying of animals/insects are necessary for_____studies
Answer: taxonomic

In the placement of items based on available space in the Laboratory, which of these questions should be considered?

Answer: All of the options

In differentiating between a highly magnified single cell of spirogyra and mucor, the nucleus in the spirogyra is_____than/to that of the mucor
Answer: Bigger

The stem of a pine is strong and _____
Answer: Woody

The plant above is likely to be a _____
Answer: Fern

To observe cells clearly under a microscope the cells need to be spreadin a_____layer
Answer: Single

The following are materials required for smear technique for cheek scrapings except _____
Answer: Funnel

In a squash preparation of the onion root tip, majority of cells will bein _____
Answer: interphase

The acid most commonly employed in decalcifying and destaining solutionsis _____
Answer: Hydrochloric acid

Physiological saline for invertebrates and cold blooded vertebrates is different from that of warm blooded vertebrates because of the proportion of _____
Answer: sodium chloride

Cultivation of_____involves the provision of the correct nutrients and physical conditions in the laboratory to enable the organism to grow in an environment similar to their naturalone
Answer: micro-organisms

The diagram above can best be identified asa/an _____
Answer: Potometer

Who devised the Manometer?
Answer: Warburg

The figure above demonstrates_____in the web of frog
Answer: microcirculation

The following statements are correct of dissection except_____.
Answer: Dissection is a minor component of the biology practical

Animals are given_____before dissection.
Answer: anaesthesia

Which of these objects may not be essential for Practicals?
Answer: Thread

The common name for Musa sp is
Ans: banana

The common name for Zea mays is
Ans:Maize

The common name for Vigna unquiculata is
Ans: Cowpea

_____is a simple suction device used for collection of small insects such as mosquitoes, thrips, sandflies
Ans: Aspirator

Light trap is one of the several methods of collecting
Ans: insects

Pond is one of the sources of collecting_____invertebrates?
Ans: aquatic

A spinal frog, one in which the entire brain is destroyed, is prepared by a procedure known as
Ans: pithing

In anaesthesizing animals,_____and ether are used as anaesthesing agents.
Ans: Chloroform

Biological drawings in the laboratory are done with a
Ans: Pencil

The scientific name of lizard is Agama
Ans: agama

You should not put_____at the head of your guidelines when labeling a specimen
Ans: Arrows

Bony fish possess mainly Bony_____and_____skeleton
Ans: endo, exo

A focusing telescope is also Called_____lens
Ans: Bertrand

Most microscopes have_____magnifications of the eyepiece
Ans: Three

The low power objective lenses of themicroscope have_____focal length
Ans: Long

You_____objects to be observed under the microscope
Ans: Centralize

When you care for an equipment in the lab, it lasts longer and also makes it
Ans: efficient

Dissecting trays are usually layered with
Ans: wax

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Dissecting instruments must be_____and_____
Ans: clean, dry

Pen-knife is used for_____bones in the laboratory
Ans: cutting

The_____of the microtome becomes_____with usage
Ans: blade, burnt

Hones are made of
Ans: stones

During centrifugation, the_____is brought to zero before start.
Ans: Rheostat

During centrifugation, tubes are put in
Ans: Pairs

Required temperature in ovens and water baths is maintained by a
Ans: Thermostat

An equipment that provides a controlled temperature for growth of microorganisms is called
Ans: Incubator

If you open the door of the oven immediately after sterilization, the glass can
Ans: Crack

Metal cans are sterilized in the lab using
Ans: Autoclave

Higher plants are preserved by
Ans: Drying

Lower plants are fixed before storage in_____bottles
Ans: sterilized

Plants are grown either in a_____garden or_____house
Ans: Botanical garden, greenhouse

Herbarium is for_____studies
Ans: Biological

make and maintain herbarium
Ans: Technician

Plants are_____for herbarium
Ans: Preserved

Tilapia zilli is in the Phylum_____
Ans: Chordata

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The structure of an organism is also called_____
Ans: Morphology

_____is used to probe dissected parts of an animal
Ans: Seekers

You pick the skin of an animal with a
Ans: Forceps

During dissection, the animals are opened up with a_____
Ans: Scissors

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_____are words to describe your drawings
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You want to indicate how big the specimen you have drawn is in relation to your drawing by way of
Ans: Magnification

_____can be applied to plant sections to make the cells visible
Ans: Stains

A thin section of water leaf stem can be made with a_____or microtome
Ans: Razor blade

A cross section across a root can be viewed with a
Ans: Microscope

The scientific name of rat is
Ans: Rattus rattus

You should wear_____to remove beakers from a hot water bath of 50°C
Ans: Gloves

The pH of a medium is usually adjusted in the lab by adding_____or_____
Ans: HC1 , NaOH

In your inoculum agar plate, the area having the highest concentration of bacteria is called the
Ans: Pool

loop is used for streaking microbe inoculum in the laboratory
Ans: Metal

You should keep_____,_____and other inflammable away from flame in the laboratory
Ans: alcohols, acetone

_____water is used for running experiments in the laboratory
Ans: Distilled

You seat on_____in laboratory

Ans: Stool

A piece of potato in Petri dish and a drop of iodine added is testing for_____
Ans: Starch

Animals are dissected in_____in the laboratory
Ans: Trays

A_____is used to measure the contraction of muscles and heart in thelaboratory
Ans: Kymograph

A is used to measure the rate of loss of water by plants in the laboratory
Ans: Potometer

_____solution is used for moistening tissues
Ans: Ringers

A popular plant fixative in the laboratory is_____
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Ans: Wax

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You do not smoke in the lab in order to avoid
Ans: Fire

You keep the lab clean in order to
Ans: Avoid contamination

Most focusing condensers are held in their mounting by_____.
Answer: Screws

Immersion oil may be removed using_____.
Answer: xylene

Live animals are generally collected from_____habitats.
Answer: Aquatic

Pteridophytes are commonly known as_____.
Answer: vascular cryptogams

The modes of nutrition in Fungi are Saprophytic and_____.
Answer: parasitic

The most common gymnosperms are called_____.
Answer: Pines

In a squash preparation of the onion root tip, majority of cells will be in_____phase.
Answer: Inter

References to "alcohol" in technique procedures mean_____.
Answer: Ethyl alcohol

_____is used for rinsing blood and debris from tissues before placing them in a fixative.
Answer: Physiological saline

Alcohol grades are usually prepared from_____.
Answer: rectified spirit

Media whose constituents and the chemical composition are known are referred to as_____.
Answer: Synthetic media

_____experiments are carried out to estimate the extent of a reaction or process.
Answer: Physiological

A device for measuring gas pressure is called a_____.
Answer: Manometer

The process of cutting open an animal in order to ascertain the structure of its parts is known as_____.
Answer: Dissection

Large animals are dissected in_____.
Answer: dissecting trays

Common anaesthesia used in the biology laboratory are Chloroform and_____.
Answer: Ether

Invertebrates are better opened up from their_____side.
Answer: Dorsal

If the dissection involves cutting through tissues, you must take steps to ensure that the contents of the cut tissues **do** not_____with your studies.
Answer: Interfere

Earthworms are usually killed with_____.
Answer: Chloroform

Tilapia zillii belong to order_____.
Answer: Perciformes

The tail of a fish is posterior to the_____.
Answer: anal fin

Dissection of vertebrate is usually done from the_____surface.
Answer: Ventral

In toads, oxygenated blood from the ventricle is driven into the_____.
Answer: truncus arteriosus

In toads, the pathetic nerve arises from the dorsal side of the brain.
Answer: Dorsal

In toads, there are_____spinal nerves.
Answer: Ten

In toads, Sympathetic nerves arise from the_____.
Answer: Ganglia

Aves resemble reptiles in that they have_____.
Answer: shelled egg

In aves, the auditory aperture is located:
Answer: Some distance behind the eye

A fold of skin between the upper arm and the fore arm of birds is known as_____.
Answer: Alar membrane

The hind limb of Aves has a short_____closely bound to the trunk.
Answer: Thigh

In a bird's foot, the digit directed backwards is known as the_____.
Answer: Hallux

An animal's hair provides it with_____.
Answer: Insulation

In mammals, efficient gaseous exchange is made possible by the presence of a_____.
Answer: Diaphragm

In mammmals, the diaphragm can be displayed by pulling the_____ away.
Answer: liver

You should always observe your specimens closely and_____.
Answer: very carefully

You keep the lab clean in order to_____
Answer: Avoid contamination

If you eat in the lab, you are likely to .....
Answer: Injure yourself and alter your results

You avoid making noise in the lab because
Answer: you will disturb others

Why is wearing of short in the lab not advisable?
Answer: To avoid injury

Wearing of a lab coat is
Answer: professional

You open up a rat with__
Answer: Scissors

Which of the following statements is incorrect about a microscope?
Answer: It is kept in a damp place

The essence of dissecting an animal or insect is
Answer: To display the internal organs/system

_____constitute the largest number of living vertebrates
Answer: the bony fish

Tilapia zilli belongs to the Order
Answer: Perciformes

In T.zilli the anal fin is located ----------
Answer: Posteriorally

The African toad protects itself when handled by the production of which fluidâ€¦â€¦â€¦â€¦â€¦
Answer: Milky

An aspirator is a device used for collection ofâ€¦â€¦â€¦â€¦.
Answer: Small insects

The Pteridophytes are ---------- producing vascular plantsÂ
Answer: spore

Used culture plates are better sterilized in the laboratory using----------
Answer: autoclave

The culture of microorganisms is best done in the laboratory using
Answer: Laminar flow

Which of these items of the laboratory is out of place in the group?
Answer: hotplace

Which of the following equipment utilizes steam for sterilization?
Answer: autoclave

One of the following is not a laboratory equipment
Answer: Slide cabinet

Which of the following items is out of place in reporting your experiments?
Answer: none of the above

Which of these statements is correct about biological drawings?
Answer: Drawing should not be too small or too big

In practical biology, you ----------
Answer: Follow tutors instructions

Which of the following is critical for good drawings?
Answer: Sharp pencil

In the study of biology, which of these statements is true?
Answer: Practical's should go hand-in-hand with theory

You display instructions in the laboratory using
Answer: A chart paper

You write instructions for display in the laboratory using
Answer: A colour pen

When a display is ready, it is pasted in the
Answer: Open lab walls and doors

Why should books, notes and purses be kept in designated places in the lab?
Answer: To avoid disturbance

The best anaesthesizing agent in the laboratory is
Answer: Chloroform

Which of the following does not belong to the microscope group?
Answer: Concave lens

The under listed are parts of the microscope except _____
Answer: Electric handle

You look into the microscope through the
Answer: Eyepiece

The light microscope uses _
Answer: Sunlight source

The ultra structure of an object is best seen with the aid of _
Electron microscope

A lab coat is
Answer: Protective