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Fill in the Blank (FBQs):

FBQ1: A diagrammatic report of laboratory studies (practical work) of a specimen is called \_\_\_\_\_.

Answer: \*Drawing\*

FBQ2: Sectioning can be achieved using \_\_\_\_\_

Answer: \*sharp blade\*

FBQ3: The lines of biological drawings in practical works should not be \_\_\_\_\_

Answer: \*Wavy\*

FBQ4: The correct way to draw guideline is \_\_\_\_\_

Answer: \*horizontally\*

FBQ5: Where could the different chemicals (acids/photosensitive/heat sensitive) be safely stored?

Answer: \*Safety cabinet\*

FBQ6: A slide was labelled 'Paramecium WM' What is the meaning of WM.

Answer: \*Whole amount\*

FBQ7: Sterilization using hot air oven can be achieved at the temperature of \_\_\_\_\_ for one hour.

Answer: \*1600C\*

FBQ8: The required temperature in water bath is maintained by a \_\_\_\_\_ system.

Answer: \*thermostatic\*

FBQ9: In centrifugation, rpm means \_\_\_\_\_

Answer: \*Revolution per minute\*

FBQ10:

Answer: \*Dissecting needle\*

FBQ11: The unit of measurement in micrometry is \_\_\_\_\_

Answer: \*Micrometer\*

FBQ12: The unit of measurement in micrometry is \_\_\_\_\_

Answer: \*Micrometer\*

FBQ13: A place where plant specimens are kept is called \_\_\_\_\_.

Answer: \*Herbarium\*

FBQ14: Fungi are plants that do not possess \_\_\_\_\_.

Answer: \*chlorophyll\*

FBQ15: The ferns have \_\_\_\_\_ roots, stems and leaves unlike the fungi.

Answer: \*True\*

FBQ16: The fixative used in squash technique for onion root tip preparation is \_\_\_\_\_.

Answer: \*acetic alcohol solution\*

FBQ17: \_\_\_\_\_ is a means of obtaining contrast between the different structures by adding colour.

Answer: \*Staining\*

FBQ18: Operculum in fishes is also called \_\_\_\_\_.

Answer: \*Gill cover\*

FBQ19: The fold of skin below the lizard chin is called \_\_\_\_\_.

Answer: \*jugular\* fold

FBQ20: The fold of skin between the upper arm and the fore arm of birds is called \_\_\_\_\_.

Answer: \*alar membrane\*

FBQ21: Warm-blooded animals are covered with \_\_\_\_\_ which provides insulation.

Answer: \*Hair\*s

FBQ22: The body of all mammals comprise of head, neck, trunk and \_\_\_\_\_.

Answer: \*Tail\*

FBQ23: Mammalian hearts have \_\_\_\_\_ chambers.

Answer: \*Four\*

FBQ24: Rabbits are warm-blooded animals as birds are \_\_\_\_\_ animals.

Answer: \*Cold-blooded\*

FBQ25: A true tail is short and is called the \_\_\_\_\_.

Answer: \*uropygium\*

FBQ26: The bird's digit that is directed backwards is called \_\_\_\_\_.

Answer: \*hallux\*

FBQ27: In mammals, the ear lobe is also called \_\_\_\_\_.

Answer: \*pinna\*

FBQ28: Whiskers found around the mouth in rabbit are otherwise called \_\_\_\_\_.

Answer: \*Vibrissae\*

FBQ29: The dissection of an insect revealed that the nervous system contains three thoracic ganglia and \_\_\_\_\_ abdominal ganglia.

Answer: \*Five\*

FBQ30: Purple is to Gram positive bacteria as \_\_\_\_\_ is to Gram negative bacteria.

Answer: \*Red\*

FBQ31: This diagram best describes a \_\_\_\_\_.

Answer: \*Pressure Cooker\*

FBQ32: The part labelled 3 in the diagram above is the \_\_\_\_\_.

Answer: \*Prism\*

FBQ33: The trunk of a fish bears \_\_\_\_\_ pectoral fins?

Answer: \*Two\*

FBQ34: After being killed, insects are pinned on the pinning board with the help of \_\_\_\_\_ pins.

Answer: \*entomological\*

FBQ35: \_\_\_\_\_ media support large varieties of microbes especially fungi and are useful for routine laboratory cultures.

Answer: \*Complex media\*

Multiple Choice Questions (MCQs):

MCQ1: Which of the following best describes this figure?

Answer: Longitudinal section of a mango fruit

MCQ2: Why should an arrow not be put at the head of the guidelines in Biology?

Answer: arrow shows movement at direction

MCQ3: The following are items that should be included in practical report except

Answer: Date

MCQ4: Which of the following is the odd one?

Answer: Hand lens

MCQ5: Displayed instructions/rules in the laboratory are very important for following reasons except one.

Answer: Housekeeping

MCQ6: Specimen labels should therefore carry the following essential information except \_\_\_\_.

Answer: Common name of organism

MCQ7: Which of the following laboratory equipments is not used for sterilization?

Answer: Pressure cooker

MCQ8: Using 40X objective lens and 15X eye piece lens of a microscope, what is the magnification that will be obtained?

Answer: 3X

MCQ9: The following are some common problems encountered while setting up the microscope except \_\_\_\_\_

Answer: Inability to obtain a sharp image

MCQ10: To maximize the light gathering ability of the lens, immersion oil can be used to increase the \_\_\_\_\_

Answer: refractive index

MCQ11: Live animals are collected with the use of the following accessories except \_\_\_\_\_

Answer: Nets

MCQ12: Which of the following insects cannot be collected using aspirator?

Answer: Mosquitoes

MCQ13: \_\_\_\_\_ are commonly known as vascular cryptogams.

Answer: bryophytes

MCQ14: The following information should be included on the label for display of insects specimen except \_\_\_\_\_

Answer: name of the insect

MCQ15: Fungi are best grown on one of the following cultures.

Answer: Nutrient Agar

MCQ16: Chlamydomonas and Volvox are \_\_\_\_\_ that are found in freshwater ponds and ditches.

Answer: Phytoflagellates

MCQ17: Staining a slide of Chlamydomonas with Noland's solution help to achieve which of the following?

Answer: Stabilize the cell

MCQ18: Washing of slides during preparation of permanent whole mount is carried out using \_\_\_\_\_ alcohol in ascending order.

Answer: 30%, 50%, 70% and 90%

MCQ19: \_\_\_\_\_, piano concave and double concave are the basic cross sectional shapes of microtome knives.

Answer: convex

MCQ20: Which of the following are precautions during centrifugation except \_\_\_\_.

Answer: Secure the lid properly.

MCQ21: Alcohol can be used for the following purposes except \_\_\_\_\_

Answer: Hydration

MCQ22: Which of the following is not true about toad?

Answer: no neck

MCQ23: The round eyes in tilapia lack \_\_\_\_\_ membrane

Answer: Tympanum

MCQ24: The 2N Hydrochloric acid used during squash technique serves which of the following purpose?

Answer: Hydrolysis

MCQ25: The following are stains except \_\_\_\_.

Answer: Groain's stain

MCQ26: The loss of water by a plant through the stomata is called \_\_\_\_.

Answer: transpiration

MCQ27: A \_\_\_\_\_ apparatus can be used to determine muscle and heart contraction of a frog.

Answer: Kymograph

MCQ28: Mammals are \_\_\_\_\_ and show parental care.

Answer: Oviparous

MCQ29: Each of a lizard's hind-limbs has femur, \_\_\_\_\_ and pes.

Answer: Tibia

MCQ30: The body of a lizard is divisible into three distinct parts namely \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_.

Answer: head, trunk and tail

MCQ31: \_\_\_\_\_ is/are used to examine various kinds of cells, tissues, and micro-organisms.

Answer: Optical microscope

MCQ32: When growing materials for squash preparation, root tips may be obtained by allowing them to germinate on a \_\_\_\_\_ blotting paper disc

Answer: glacial

MCQ33: Which of the plants above is rich in protein?

Answer: a

MCQ34: In the placement of items based on available space in the Laboratory, which of these questions should be considered?

Answer: Is the present arrangement satisfactory?

MCQ35: The following are materials required for smear technique for cheek scrapings except \_\_\_\_

Answer: Disposable spatula