

FBQ1: \_\_\_\_\_ is a place equipped for investigative procedures and for preparation of reagent.

Answer: laboratory

FBQ2: How many moles of glucose are present in 180g \_\_\_\_\_

Answer: 1

FBQ3: \_\_\_\_\_ is due to human incompetence which can and must be eliminated

Answer: Mistake

FBQ4: \_\_\_\_\_ is the amount of deviation from the true value and not a mistake on the part of the worker.

Answer: error

FBQ5: A standard curve is used in biological experiments. \_\_\_\_\_ True or False

Answer: True

FBQ6: What is the name of the glassware represented? \_\_\_\_\_

Answer: Conical flask

FBQ7: The Bradford assay is a colorimetric assay. True or False

Answer: True

FBQ8: Identify the figure represented \_\_\_\_\_

Answer: Volumetric flask

FBQ9: What does the sign stand for ? \_\_\_\_\_&nbsp; ;

Answer: Open Flame Prohibited

FBQ10: The actual measurement of pH is then done by dipping the \_\_\_\_\_ into the test solution and reading off the value

Answer: glass electrode

FBQ11: The first step to standardize a pH meter is by dipping into \_\_\_\_\_

Answer: Buffer solution

FBQ12: Identify the apparatus represented \_\_\_\_\_

Answer: Bunsen Burner

FBQ13: The second step to standardize a pH meter is by rinsing with \_\_\_\_\_

Answer: deionized water

FBQ14: The ability of a buffer to resist change in pH is referred to as. \_\_\_\_\_

Answer: Buffer capacity

FBQ15: \_\_\_\_\_ is a technique involving the determination of the amount of light that is transmitted or absorbed by a substance at a given wavelength.

Answer: Spectrophotometry

FBQ16: \_\_\_\_\_ is the science concerned with measuring human visual response to light.

Answer: Photometry

FBQ17: \_\_\_\_\_ states that the absorption of a monochromatic light passing through an absorbing medium is directly proportional to the concentration of the absorbing molecules for a constant path length.

Answer: Beer's law

FBQ18: \_\_\_\_\_ law states that when a ray of monochromatic light passes through an absorbing medium, its intensity decreases exponentially as the length of the absorbing medium increases arithmetically and the light absorbed is independent of the source of light.

Answer: Lambert's

FBQ19: \_\_\_\_\_ law states that when monochromatic light passes through a solution, the amount of light transmitted decreases exponentially with the increase in the concentration of the solution and with the increase in the thickness of the layer of the solution through which the light passes.  
Answer: Beer-lambert's

FBQ20: Name the glassware represented \_\_\_\_\_  
Answer: Round bottom flask

FBQ21: Biuret reagent contains 6 ml of biuret .True or False \_\_\_\_\_  
Answer: False

FBQ22: The building blocks of proteins are known as \_\_\_\_\_  
Answer: Amino acids

FBQ23: What colour does Phenylalanine give with Ninhydrin? \_\_\_\_\_  
Answer: Purple

FBQ24: What colour does proline give with Ninhydrin? \_\_\_\_\_  
Answer: Yellow

FBQ25: Biuret reagent can be used both quantitatively and qualitatively. True or False \_\_\_\_\_  
Answer: True

FBQ26: Biuret reagent can be stored indefinitely in a dark room by adding sodium nitrate. True or False \_\_\_\_\_  
Answer: False

FBQ27: What does this sign stand for in the laboratory? \_\_\_\_\_  
Answer: Live electricity

FBQ28: A facility that provides controlled conditions in which scientific research, experiments, and measurement may be performed. \_\_\_\_\_  
Answer: Laboratory

FBQ29: Name the type of glass used in the laboratory due to its resistance to thermal stress. \_\_\_\_\_  
Answer: Pyrex

FBQ30: Name the type of glass used in the laboratory due to its ability to withstand high temperatures or its transparency in certain parts of the electromagnetic spectrum. \_\_\_\_\_  
Answer: Quartz glass

FBQ31: \_\_\_\_\_ glass is used to keep out much of the UV and IR radiation so that the effect of light on the contents is minimized.  
Answer: darkened brown

FBQ32: What type of container is used to store hydrofluoric acid in the laboratory \_\_\_\_\_  
Answer: Polyethylene containers

FBQ33: \_\_\_\_\_ is freedom from harm or accident.  
Answer: Safety

FBQ34: The guidelines designed to help keep you safe when experimenting are known as \_\_\_\_\_  
Answer: Safety rules

FBQ35: A standard curve is a quantitative research tool. \_\_\_\_\_ True or False  
Answer: True

MCQ1: All but one of these are laboratory glass wares\_\_\_\_\_

Answer: Magnetic stirrer

MCQ2: Which of these is the most appropriate way to clean a glass ware used for hexane ? \_\_\_\_\_

Answer: Rinse 2-3 times with ethanol, rinse 3-4 times with deionized water, then put the glassware away.

MCQ3: If an experiment contains a systematic error, then increasing the sample size generally \_\_\_\_\_.

Answer: increases precision

MCQ4: Which of the following is the outcome of eliminating systematic error in an experiment? \_\_\_\_\_

Answer: improves accuracy

MCQ5: One of these is safe to be worn in the laboratory.\_\_\_\_\_

Answer: Covered shoes

MCQ6: All these are DON'Ts in the Laboratory Except

Answer: wear light weight disposable gloves during weighing

MCQ7: Which of the following is NOT a basic unit?

Answer: degree Celsius

MCQ8: Candela is the SI unit of which of the following physical quantities?

Answer: luminous intensity

MCQ9: What is the SI unit of absorbed dose of irradiation?

Answer: Gray

MCQ10: What is the SI unit of radioactivity?

Answer: Becquerel

MCQ11: Which of the following is NOT a derived unit?

Answer: Candela

MCQ12: What is the SI unit of electric charge?

Answer: Coulomb

MCQ13: Siemen is the SI unit of which of the following physical quantities?

Answer: Conductance

MCQ14: Which of the following is NOT true of errors?

Answer: they should be lived with

MCQ15: What does this safety sign represent in the Laboratory

Answer: Sign for fire extinguisher

MCQ16: Which of the following types of light is photometry concerned with?

Answer: visible light

MCQ17: To which of the following colour(s) are people less sensitive? I. green, II. red, III. violet

Answer: II and III

MCQ18: Which of the following is the most widely used method for determining the concentrations of biochemical compounds?

Answer: Colorimetry

MCQ19: Which of the following is not a type of colorimeter used in laboratories?

Answer: Beckman 202

MCQ20: Which of the following laws state that the absorption of a monochromatic light passing through an absorbing medium is directly proportional to the concentration of the absorbing molecules for a constant path length?

Answer: Beer's law

MCQ21: One of these statements is not true of errors.

Answer: They can be not a mistake on the part of the worker

MCQ22: There are \_\_\_\_ approaches to the preparation of buffer.

Answer: 2

MCQ23: The following should be used for cleaning a cuvette EXCEPT \_\_\_\_.

Answer: Brush

MCQ24: \_\_\_\_ is an example of water soluble solution.

Answer: sucrose solution

MCQ25: The principle that cyclic amino acids react with  $\text{HNO}_3$  to give a yellow nitrocompound, which changes color to orange in alkaline medium owing to the formation of salt is employed in \_\_\_\_.

Answer: Xanthoprotein reaction

MCQ26: The following are true of proteins EXCEPT \_\_\_\_.

Answer: they are more abundant in animals

MCQ27: Which of these statements are NOT true of random errors?

Answer: They are caused due to problems with the measuring instruments

MCQ28: The following are materials used in the colormetric estimation of inorganic phosphates except \_\_\_\_.

Answer: oxidizing agent

MCQ29: Which of the terms indicates proximity of measurement results to the true value?

Answer: Accuracy

MCQ30: Which of these will be increased by increasing the sample size in an experiment which has a systemic error?

Answer: Precision

MCQ31: The following are laboratory safety rules EXCEPT \_\_\_\_.

Answer: be diligent

MCQ32: The following laboratory equipment are made of glass except \_\_\_\_.

Answer: Refrigerator

MCQ33: Which of these physical quantities has a Basic Unit?

Answer: Mass

MCQ34: Which of these physical quantities has a Derived Unit?

Answer: Work

MCQ35: Which of these is the unit for Potential difference?

Answer: Volt