FBQ1: is the main component of cell walls of plants. Answer: *cellulose*
FBQ2: Number of moles of soluteMass of solven <mi Answer: *Molality*</mi
FBQ3: is defined as the ratio of the weight of solute to the total weight of solute plus solvent multiplied by 100. Answer: *Weight percentage*
FBQ4: A solution with a relatively small concentration of solute is said to be
Answer: *Dilute*
FBQ5: Complete hydrolysis of starch is proved by positive test. Answer: *Benedict's*
FBQ6: Calculate the mole fraction of C2H5OH in a solution that contains 46 grams of ethanol, C2H5OH, and 64 grams of methanol, CH3OH Answer: $^*1/3^*$
FBQ7: The S. I. unit of concentration is Answer: *g/dm3*
FBQ8: The gram-equivalent weight of an acid is that weight of the acid in grams which produces 1.008g of Answer: *Hydrogen ion*
FBQ9: The S I unit for amount is Answer: *Mole*
FBQ10: possess between 3 to 7 carbon atoms in their structure. Answer: *Monosaccharide*s
FBQ11: The levels of blood glucose are sensitively regulated by Answer: *Hormones*
FBQ12: reacts with Iodinemonochloride (ICI) to release iodine from the double bonds of unsaturated fatty acids. Answer: *Potassium iodide*
FBQ13: In thin layer chromatography, the thin layer of adsorbent particles attached to a solid plate is the phase. Answer: *Stationary*
FBQ14: In thin layer chromatography, neutral lipids are separated using solvents. Answer: *Non-polar*
FBQ15: The concentration of concentrated laboratory H2SO4 is about M. Answer: *18*
FBQ16: Iodine number test is carried out to calculate the relative of fats. Answer: *Unsaturation*
FBQ17: Carbohydrates have characteristics that can distinguish them from other molecules. Answer: *tests*
FBQ18: are very, important biological macromolecules that predominantly occur in almost all living things. Answer: *Carbohydrates*

FBQ19: The basic units of carbohydrates are Answer: *Monosaccharides*
FBQ20: How many carbon atoms are present in a molecule of fructose Answer: *6*
FBQ21: In separating lipids using TLC, the lipids are separated into groups according to their $___$. Answer: *Polarity*
FBQ22: In Folin-Wu Method, the concentration of phosphomolybdous acid is proportional to the concentration of $__$. Answer: *glucose*
FBQ23: Diabetes is the disease associated with changes in the bloodlevel from the normal level. Answer: *glucose*
FBQ24: The most used method for separation of lipids is Answer: *thin layer chromatography*
FBQ25: Nitrogen-containing compounds of high molecular weight found in association with proteins in the cell are known as Answer: *Nucleic acids*
FBQ26: act as a store of genetic information. Answer: *DNA*
FBQ27: A general reaction for pentose that depends on the formation of furfural when the pentose is heated with concentrated hydrochloric acid is known as
Answer: *Orcinol reaction*
FBQ28: For rough indication of pH, can be used. Answer: *indicator papers*
FBQ29: Inorganic phosphate reacts with in an acid solution to form phosphomolybdic acid. Answer: *ammonia molybdate*
FBQ30: The principle of a is that known amounts of pure substance being assayed are treated, and then the readings taken. Answer: *calibration-curve*
FBQ31: The volume of the solute present in 100 parts by volume of solution is called the Answer: *Volume percentage*
FBQ32: The symbol "N" stands for the concentration of solutions in Answer: *Normality*
FBQ33: test can be undertaken to differentiate between glucose and fructose. Answer: *Seliwanoff*
FBQ34: A solution with a large concentration of solute is said to be Answer: *concentrated*
FBQ35: A solution made by dissolving 9.81 g of a non volatile nonelectrolyte in 90.0 g of water boiled at 100.37 oC at 760 mm Hg. What is the approximate molecular weight of the substance? (For water, Kb = 0.51 oC/m) Answer: *150 g/mol*

Multiple Choice Questions (MCQs): MCQ1: Which of the following is the correct definition of the Avogadro's constant (L)? Answer: No of particles divided by mass of species
MCQ2: Which of these tests will give the quantity of carbohydrate in a sample? Answer: Molisch's reaction
MCQ3: The following are components of Fehling's reagent except Answer: Potassium sodium tartate
MCQ4: Failure of pancreas to produce sufficient insulin is a condition found in
Answer: hepatitis
MCQ5: The reaction of Barfoed's reagent with reducing monosaccharides gives a colour. Answer: Violet
MCQ6: Which test is used to distinguish simple sugar from complex sugars? Answer: Benedict's test
MCQ7: One of these statements is NOT entirely true of carbohydrates: Answer: They are biological macromolecules that predominantly occur in almost all living things.
MCQ8: The general test of carbohydrates is Answer: Benedict'sTest
MCQ9: The following tests are based on derivatives of furfural or furfural formation except Answer: Molisch
MCQ10: The normal blood glucose range in an average man is Answer: 4-8 mmol/L
MCQ11: One of these statements best defines a Standard Solution. Answer: One that contains 100g of the substance in 100 ml of solvent.
MCQ12: Which of these tests takes advantage of the acid catalysed dehydration of simple sugar to produce either furfural or 5-OH methyl furfural which combines with $\alpha\text{-naphthol}$ to produce a purple complex? Answer: Iodine Test
MCQ13: The number of moles of NaCl in 3 litres of 3 M solution is
Answer: 1
MCQ14: Which of the following entities changes with temperature? Answer: Molarity
MCQ15: Nucleic acids can be analyzed experimentally by their Answer: Molecular weight
MCQ16: RNA differs from DNA in all of the following ways except Answer: The presence of Thymine
MCQ17: RNA is sometimes the genetic material in Answer: Yeast
MCQ18: Further purification during the isolation of RNA from yeast can be made by treating the preparation with Answer: Amylase

MCQ19: The denatured protein during RNA isolation from yeast is removed by Answer: Distillation MCQ20: The difference between Benedict's and Barfoed's test is Answer: Benedict's test is carried out in weak alkaline medium while Barfoed's is in acidic medium MCQ21: Complete hydrolysis of starch is proved by positive _____ test. Answer: Iodine MCQ22: Carbohydrates are found in all but one of these substances: Answer: They are found in insulin MCQ23: Carbohydrates form part of the following except : Answer: Nucleic acid ____ is defined as the number of grams of iodine absorbed by 100 MCQ24: grams of lipid. Answer: Iodine number MCQ25: Carbohydrates are involved in all these EXCEPT Answer: Digestive Enzymes MCQ26: A risk factor for heart disease includes _ Answer: Active lifestyle MCQ27: The hydrolysis of fat by alkali is called ____ Answer: Saponification MCQ28: What colour does iodine solution give with glycogen? Answer: blue MCQ29: Which of the following gives reddish yellow precipitate when it is boiled with Benedict's solution? Answer: Sucrose MCQ30: Fehling's solution is prepared by dissolving 6.93g of _____ in 100 ml of distilled water. Answer: Sodium sulphate MCQ31: One of these is NOT a reducing sugar: Answer: Sucrose MCQ32: The S.I. units for length, mass, time and amount are _____. Answer: centimeter, gram, second and mole MCQ33: The condition in which the blood sugar level is high is referred to as Answer: Hypochlorea MCQ34: In the determination of iodine number of a lipid the following reagents will be required except Answer: chloroform MCQ35: The concentration of phosphomolybdous acid is proportional to

concentration of glucose is the principle applied in one of these methods of

estimation

Answer: Folin-Wu method