FBQ1: Phosphorylation is the synthesis of

Answer: ATP

FBQ2: The pressure caused by the potential of water to continuously move into a

cell from outside is called ----- pressure

Answer: Osmotic

FBQ3: The counterpart of osmotic pressure from inside the cell is called -----

potential

Answer: Osmotic

FBQ4: The pressure that causes water pressure to push the plasma membrane

against the cell wall is called ----- pressure

Answer: Turgor

FBQ5: When turgor is lost and cytoplasm shrinks away from cell wall, it is

called ____.

Answer: Plasmolysis

FBQ6: are typically move by facilitated diffusion that involves co-

transport with another solute

Answer: Sugars

FBQ7: _____ Membranes allow the unrestricted movement of small molecules across

the plasma membrane.

Answer: Lipids

FBQ8: Scientists measure energy in calories (cal) or _____.

Answer: Joules

FBQ9: A is the amount of energy needed to move 1 kilogram through1 metre

with an acceleration of 1 metre per second.

Answer: Joule

FBQ10: With the help of the enzyme pepsin, proteins can be changed to

Answer: Polypeptides

FBQ11: The energy being used to do work is called ----- energy

Answer: Kinetic

FBQ12: Exploding a knockout is one of the example of ----- energy

Answer: Kinetic

FBQ13: What are epoxy resin sections stained with after being cut with a

microtome?

Answer: Toluidine blue

FBQ14: The two primary energy transformations in plants are ----- and

cellular transportation Answer: Photosynthesis

FBQ15: uses light energy to convert CO2 and H2O to carbohydrates.

Answer: Photosynthesis

FBQ16: The chemical reactions that transform energy in cells is

collectivelycalled Answer: Metabolism

FBQ17: The chlorophyll is found in oval-shaped structures called _____.

Answer: Chloroplast

FBQ18: In plants, Extra nuclear DNA is found in

Answer: Chloroplast

FBQ19: Plasma membrane is composed of Protein and ------Answer: Lipids FBQ20: The kinetic energy of a compound is contained in its ----- bonds Answer: Chemical FBQ21: Most energy transformations in organisms are involve chemical reactions called Oxidations and -----Answer: Reductions FBQ22: ----- is the loss of electrons either alone or with hydrogen, from a molecule Answer: Oxidation FBQ23: The sedimentation constant of ribosome is generally 70S and breaks up into two subunits whose sedimentation constants are Answer: 50S and 30S FBQ24: Metabolism is the sum of the vast array of ----- and matter transformation in cells. Answer: Energy FBQ 25: The sequence of electron carrier is known as the electron ___ Answer: transport chain FBQ 26: The most common carotenoid is _ Answer: beta carotene FBQ 27: Phosphorylation is the synthesis of ------Answer: ATP FBQ 28: __ is the final product of glycolysis. Answer: pyruvic acid FBQ 29: The chlorophyll is found in oval-shaped structures called ____. Answer: Chloroplast FBQ 30: In plants chemical energy is used to make sugar in the ___. Answer: Stroma FBQ 31: Vitamin A is a precursor of _____. Answer: Retinal FBQ 32: Even in the presence of sunlight and water, photosynthesis cannot occur in the absence of Answer: Carbon dioxide FBQ 33: ____ discovered penicillin. Answer: Fleming FBQ 34: ----- refer(s) to growing plants without soil Answer: Hydrophonics FBQ 35: The protons and electrons required to reduce NADP+ to NADPH2 come from Answer: H₂O MCQ 1: Nitrogen, phosphorus and sulphur are examples of Answer: Essential non-metallic elements MCQ 2: Through enzyme pepsin, proteins can be changed to Answer: Polypeptides

MCQ 3: Which of the following organelles is surrounded by only one membrane?

Answer: Micro-bodies

MCQ 4: Sugars made in leaves are transported through

Answer: Phloem tissues

MCQ 5: Light absorbed by chlorophyll is converted into

Answer: chemical energy

MCQ 6: Carbon dioxide (CO2) taken in night is stored in form of

Answer: chemical energy

MCQ 7: Packets of light energy are known as ------

Answer: Photons

MCQ 8: Energy is stored in chemical bonds such as those in sugar, starch and

Answer: Fats

MCQ 9: Energy is stored in chemical bonds such as those in sugar, starch and

Answer: Fats

MCQ 10: IR is absorbed by water and

Answer: carbon dioxide

MCQ 11: In most plants, carbohydrates move largely as entirely as

Answer: Sucrose

MCQ 12: Due to chemical energy, water and carbon dioxide are converted into

Answer: Carbohydrates

MCQ 13: The green colour of leaves is due to solar chemical factories called

Answer: Chloroplasts

MCQ 14: The main difference between an animal and a plant cell is that

Answer: Animal cell lack rigid cell wall

MCQ 15: Extra nuclear DNA is found in

Answer: Chloroplast

MCQ 16: Mitochondria was first seen by _____

Answer: Altmann

MCQ 17: Plasma membrane is composed of

Answer: Protein and Lipids

MCQ 18: Cellular organelles containing hydrolytic enzymes are called

Answer: Lysosomes

MCQ 19: Ribosomes are responsible for ----- in the cell

Answer: Protein synthesis

MCQ 20: Food is converted to energy in ----- of the cell

Answer: Mitochondria

MCQ 21: The Chlorophyll of bacteria is called

Answer: Bacteriochlorophylls

MCQ 22: An essential component of chlorophyll molecule is

Answer: Magnesium

MCQ 23: Facilitation of entry of CO2 into the leaf is done through stomata as

well as through water film on the ----- cells

Answer: spongy mesophyll

MCQ 24: Noncyclic photophosphorylation involve which of the following photosystems? I. photosystem I, II. photosystem II Answer: I and II MCQ25: In some microorganisms, the source of protons and electrons is _____. Answer: Hydrogen sulphide MCQ 26: Cork is useful in making stoppers for wine bottle because: Answer: Suberized tissues inhibit water los MCQ 27: Many metabolic functions in a cell occur in/on the ____. Answer: membranes MCQ28: Which of the following statements is not true of enzymes? Answer: they increase the energy of activation of reactions MCQ 29: Directly linked pigments to photosynthetic electron transport are _____. Answer: Chlorophylls MCQ 30: Directly linked pigments to photosynthetic electron transport are _____. Answer: Chlorophylls MCQ 31: In dark reaction, ----- are required for the reduction of CO₂ to carbohydrates Answer: ATP and NADPH2 MCQ 32: Microtubules are made of two types of globular proteins namely ----tubulin Answer: Alpha and beta MCQ 33: Photosynthetic pigments other than chlorophyll are called _____. Answer: Accessory pigments MCQ 34: Which of the following enzymes catalyzes the breakdown of hydrogen peroxide? Answer: Catalase MCQ 35: The region of ER that is encrusted with ribosomes is the ------

Answer: rough ER