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Accidental Discoveries – Serendipity (Structure of benzene, penicillin, Gravitation, Flower)

Transmission Electronic microscope \Rightarrow for internal structures, Scanning EM – surface of cells.

Axenic Culture – pure culture without contamination

In Vitro – study of plants outside body of glass tube

Protein – peptide bond

Polysaccharide - Glycoside bond

Nucleic acid – Phosphodiester bond

ATP = energy cheque for endergonic metabolic reaction

Fritz Lippmann = father of ATP cycle.

Atom \rightarrow molecule \rightarrow Compound \rightarrow Cell \rightarrow tissue \rightarrow organ \rightarrow Organ System \rightarrow organism \rightarrow population \rightarrow Community \rightarrow Ecosystem \rightarrow Biosphere

NACL = 0.9% of blood

Glucose = 0.1% of body wt 60 - 100 mg/100 ml of blood

Protein = 12%

Fat = 3.5%

Nucleic acid = 2%

ACTH = 39 Amino acid

Haemocyanin = 8200 AA

Energy Kinetics of living being = Bioenergetics

Second law of thermodynamics – states that in every real process the sum of the entropies of all participating bodies is increased.

Cockroaches & Ginkgo's have shown very little change in millions of year.

Homeostatic – internal environment – Walther B- Cannon

Last body cells to die = Brain.

Thermostat = Hypothalamus.

Amoeba, Bacteria, Paramecium = Immortal

Art of keeping tissues & organs alive outside body of animal = Sydney Ringer

Bushmen of Kalahari = use fingers & Thumb to indicate hunting

Frog – tongue bifid – teeth on upper jaw

Toad – teeth absent

Mimicry – Phylum – leaf insects look as leaf

Kallima – dead leaf butterfly

RNA = genetic material in TMV

Height blooming flowers – colorless but highly Scented & open at night

Flying frog – Rhacophorus – digits of limb & hind limb webbed for gliding

Flying frog – pteropus – skinfold patagia for gliding

Selaginella leptophylla (Clubmoss) s. bryopsis, myrothamnus, Craterostigma – survive

Desiccation & dead when dry & revive in water = RESURRECTION PLANTS.

Melvin – Calvin produced A. A. & sugar by H_2O , H_2 , NH_3 , CH_4

1st oxygenic & aerobic photoautotrophs = Cyanobacteria

Homologous organs → pentadactyl plan (5- digits)

Polio = Smallest animal virus

Haeckel = Biogenetic law – ontogeny repeats phylogeny

Leucocytes = lack cell wall

RER = protein synthesis

SER = steroid synthesis

Silent valley of Kerala = Cicadas extinction

Hardest structure of human body = enamel

Walrus – upper canines

Maximum diversity = tropical rain forest

Diastrophism = vertically upward movement of solid part of earth e. g. Himalaya on Tethys

Autecology – between same individuals Schroder & Kirchner

Synecology – Between different individuals Schroder & Kirchner

Term ecosystem = AG tensely.

10% law of energy flow – Lindeman

Plant with largest fruit – Lodoicea maldivica – double coconut – 6 kg