- Contain C, H & O in the ratio of 1:2:1
- Classified on the basis of molecular form as mon- di- & polysaccharides
- Monosaccharide: ribose, glucose & fructose
- Disaccharide: sucrose, lactose & maltose
- Polysaccharide: glycogen
- Monosaccharide cannot be hydrolyzed into any smaller molecular group
- Di- and polysaccharides may be hydrolyzed into 2 or more molecules of monosaccharide
- Mono- & disaccharides are soluble in water & sweet (sugars)
- Glucose is the primary source of metabolic energy
- Energy is stored in the form of glycogen
- Ribose & deoxyribose sugars are part of DNA & RNA molecules rivose sugar) is an intermediate in one of the pathways for meable in luid compartments

Body fluid compartments

tracellular (\mathbf{H}) from where they take up O_2 & Cells of the body are surrounded by nutrients & discharge CO

ECF is divided into:

- i. Interstitial fluid (ISF) is fluid outside the vascular system
- ii. Blood plasma Intracellular fluid (ICF) is the one that is found within the cells
- Trans cellular fluid (TCF) is not strictly ECF since it is confined in 'special' parts of the iii. body – includes CSF, aqueous humor, synovial fluid, fluid in GIT contents

TCF constitute a very small proportion of body fluids

Transport in and out of cell

Transport across the cell membrane can be passive or active

- Passive transport is determined by concentration gradients and electrical forces
- Active transport requires additional energy (ATP) that makes it possible to transport a substance against gradient