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cellular respiration is controlled by a variety of means the entry of glucose into a cell is controlled by the transport proteins that aid glucose passage through the cell membrane most of the control of the respiration processes is accomplished through the control of specific enzymes in the pathways the cells of living things also get energy by burning they burn glucose in the process called cellular respiration figure 5 9 1 5 9 1 burning logs that convert carbon in wood into carbon dioxide and a significant amount of thermal energy inside every cell of all living things energy is needed to carry out life processes types aerobic respiration anaerobic respiration phases glycolysis oxidative phosphorylation citric acid cycle respiration in autotrophs what is respiration respiration is a metabolic process that occurs in all organisms it is a biochemical process that occurs within the cells of organisms respiration is necessary for survival when we inhale oxygen it breaks down glucose into water and carbon dioxide to download respiration in organisms class 7 notes visit byju s energy and respiration chapter 12 energy in living organisms needed for anabolic reactions protein synthesis dna replication glycogenesis polymerisation cellular work active transport movement of chromosomes sliding filaments movement of vesicles movement 7 7 regulation of cellular respiration key terms chapter summary visual connection questions review questions critical thinking questions protection from inhaled particles in the respiratory system air flow occurs by bulk flow from regions of high pressure to lower pressure with the pressure differences generated by a muscular pump resistance to air flow is influenced primarily by the radius of the tube $1/r^4$ through which air is flowing $f \propto 1/r^4$ in physiology respiration is the movement of oxygen from the outside environment to the cells within tissues and the removal of carbon dioxide in the opposite direction to the surrounding environment 1 respiration is a chemical process that involves the breakdown of nutrient molecules specifically glucose in order to release the energy stored within the bonds of these molecules respiration is enzyme controlled respiration can take place with oxygen aerobically or without oxygen anaerobically respiration involves taking in oxygen of air into the cells using it for releasing energy by burning glucose and then eliminating the waste products carbon dioxide and water from the body however some types of respiration can take place either in the lack of oxygen fermentation or in the complete absence of oxygen anaerobic respiration 8 cellular respiration cellular respiration is a cellular process that breaks down nutrient molecules produced by photosynthesizers with the concomitant production of atp it consumes oxygen and produces carbon dioxide CO_2 cellular respiration is an aerobic process it usually involves the complete breakdown of glucose to CO_2 and H_2O cbse class 7 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the cells of living things also get energy by burning they burn glucose in the process called cellular respiration figure 5 9 1 5 9 1 burning logs that convert carbon in wood into carbon dioxide and a significant amount of thermal energy inside every cell of all living things energy is needed to carry out life processes

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respiration involves taking in oxygen of air into the cells using it for releasing energy by burning glucose and then eliminating the waste products carbon dioxide and water from the body however some types of respiration can take place either in the lack of oxygen fermentation or in the complete absence of oxygen anaerobic respiration

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