	DOM COUGOL DACANT ALIENUE DUODI LUDUIANA	1
	BCM SCHOOL BASANT AUENUE, DUGRI LUDHIANA XI BIO ASSIGNMENT	
	ANSWER KEY	
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2	A-(ii),B-(i),C-(iv),D-(iii)	
	PSII, plastoquinone, cytochromes, PSI and ferredoxin.	
3	(i) Incorrect, (ii) Correct, (iii) Incorrect, (iv) Correct	
4	Root is the organ which shows the features given in the question. Vascular bundles	
_	are present on separate radii thus called radial arrangement.	
5	Function of each	
6	3 molecules of ATP are required for phosphorylation and 2 molecules of NADPH are	
	required for the reduction of carbon dioxide. This reaction occurs in the stroma of	
	the chloroplast.	
7	The name of the process is cellular respiration. It is a catabolic process because it	
	involves the breakdown of the glucose molecule. Raw materials involved in the	
	cellular respiration process are glucose molecule and oxygen.	
8		
	complete the respiration process, the steps can be arranged in the following	
	sequential manner:	
	1. Pulmonary ventilation: This is the process of breathing, where atmospheric air is	
	drawn into the lungs and carbon dioxide-rich air from the alveoli is expelled out. This	
	step initiates the respiratory process.	
	2. Diffusion of gases across the alveolar membrane: Once the air reaches the alveoli,	
	oxygen (O <sub>2</sub> ) diffuses from the alveoli into the blood, while carbon dioxide (CO <sub>2</sub> )	
	diffuses from the blood into the alveoli.	
	3. Transport of gases by blood: The oxygen that has entered the blood is then	
	transported by the bloodstream to various tissues throughout the body.	
	grandported by the acceptance cannot be acceptance and acceptance	
	4 Diffusion of O. and CO. between blood and tipoups. At the tipoup level evugen	
	4. Diffusion of O <sub>2</sub> and CO <sub>2</sub> between blood and tissues: At the tissue level, oxygen	
	diffuses from the blood into the cells, while carbon dioxide produced by cellular	
	metabolism diffuses from the cells into the blood.	
	5. Utilisation of O <sub>2</sub> by the cells for catabolic reactions and resultant release of CO <sub>2</sub> :	
	The cells utilize the oxygen for metabolic processes, leading to the production of	
	energy and the release of carbon dioxide as a waste produc	
9	a.Tubular epithelial cells perform reabsorption either by active or passive	
9	mechanisms.	
	b.podocytes in inner epithelium of Bowman's cpsule in the kidney.	
	,	
	c. maintain osmoregulation ( detail)	