

## INDIAN SCHOOL MUSCAT SENIOR SECTION DEPARTMENT OF BIOLOGY CLASS XI RESPIRATION WORKSHEET-17

1.	What are respiratory substrates? Write the most common respiratory substrate.	1
2.	Which are the organs for gaseous exchange in plants?	1
3.	Name the final electron acceptor in aerobic respiration.	1
4.	Mention the location of Electron Transport System in mitochondria.	1
5.	Explain the term "Energy Currency". Which substance acts as energy currency in plants a	and
anii	mals?	2
6.	Different substrates get oxidized during respiration. How does Respiratory Quotient (RQ)	١
ind	icate which type of substrate, i.e., carbohydrate, fat or protein is getting oxidized?	2
7.	Fo-F1 particles participate in the synthesis of	2
8.	What is meant by the statement "aerobic respiration is more efficient."?	2
9.	Why is respiratory pathway referred to as an amphibolic pathway? Explain.	3
10.	RuBP carboxylase, PEPcase, Pyruvate dehydrogenase, ATPase, cytochrome oxidase,	
Hex	xokinase, Lactate dehydrogenase. Select/choose enzymes from the list above which are inv	volved
in		
	a. Photosynthesis	
	b. Respiration	
	c. Both in photosynthesis and respiration	3
11.	Calculate the efficiency of respiration in the living system.	3
12.	Explain the major steps in Kreb's cycle. Where does this process occur in a cell?	5