



# INDIAN SCHOOL DARSAIT

## DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : Respiration in  
Plants

Date of worksheet : 16- 8 -2017

Resource Person: Zehra Fatima

Date of Submission : \_\_\_\_\_

Name of the Student : \_\_\_\_\_

Class & Division : XI B

Roll Number : \_\_\_\_

S.No.	Questions	Marks
1 .	How many ATP molecules are produced from a molecule of glucose on its complete oxidation in eukaryotes?	1
2.	Name the molecule which is terminal acceptor of electron.	1
3.	How many ATP are produced by the oxidation of one molecule of $FADH_2$ ?	1
4.	Where does Electron transport chain takes place in eukaryotic cell?	1
5.	What is the name of the first product formed in Kreb's Cycle?	1
6.	Name the end product of glycolysis.	1
7.	Which enzyme converts Sugar into glucose and fructose?	1
8.	What is lactic acid fermentation?	1
9.	Distinguish between Glycolysis and fermentation.	2
10.	What are respiratory substrates? Name the most common respiratory substrate	2
11.	Differentiate between aerobic and anaerobic respiration.	2
12.	Why does anaerobic respiration produces less energy than aerobic respiration?	2
13.	Mention two differences between oxidative phosphorylation and phosphorylation	2
14.	What do you mean by Respiratory Quotient? State the values for carbohydrates, fats and proteins.	2
15.	Give a brief account of ATP molecules produced in aerobic respiration in eukaryotes.	3
16.	Give reason why respiratory pathway is called as an amphibolic pathway?	3

17. Explain the electron transport system taking place in mitochondria. 3
18. Give a schematic representation of Citric acid cycle. 3
19. Differentiate between Glycolysis and Krebs's cycle. 3
20. Explain Glycolysis with a schematic representation. 5