



INDIAN SCHOOL DARSAIT

DEPARTMENT OF BIOLOGY



Subject : Biology

Topic : Breathing and
Exchange of Gases

Date of worksheet : 10-10 -2017

Resource Person: Zehra Fatima

Date of Submission : _____

Name of the Student : _____

Class & Division : XI B

Roll Number : ___

S.No.	Questions	Marks
1 .	Define the term Hypoxia.	1
2.	Name the organ in human respiratory system which produces sound.	1
3.	Give the name and function of a fluid filled double membranous layer which surrounds the lungs.	1
4.	How many oxygen molecules can be carried out by one haemoglobin molecules?	1
5.	Which organ of our respiratory system acts as primary site of exchange of gases?	1
6.	Cigarette smoking causes emphysema. Give reason.	1
7.	Name the principle of exchange of gases.	1
8.	What is the role of oxyhaemoglobin after releasing molecular oxygen in the tissues?	1
9.	Draw a labelled diagram of a section of an alveolus with a pulmonary capillary.	2
10.	What do you mean by Vital capacity? State its significance.	2
11.	What is the effect of $p\text{CO}_2$ on oxygen transport?	2
12.	Diffusion of gases occurs in the alveolar region only and not in the other parts of respiratory system. Why?	2
13.	What is Oxygen dissociation curve? Give reason for its sigmoidal pattern.	3
14.	What are occupational respiratory disorders? What are their harmful effects? What precautions should a person take to prevent such disorders.	3

15. Explain the role of neural system in regulation of respiration in human. 3
16. With the help of labelled diagram explain the structure of human respiratory system. 5
17. Explain the mechanism of breathing with the help of labelled diagram involving both stages - inspiration and expiration. 5