

Name: _____	Subject: Biology	Class: 11 <sup>th</sup>	Time: 60 minutes	Total Marks:	<b>30</b>
<b>Chapter No.13</b>	<b>MJDexpert.com</b>			Obtained marks	

### Objective-Section

**Q. 1 You have four choices for each objective type question as A, B, C, and D. The choice which you think is correct. (10x1=10)**

1. Water is more viscous than air:
  - a. 10 times b. 20 times c. 50 times d. 100 times
2. During photorespiration, glycolate diffuses into the membrane bounded:
  - a. Mitochondria b. Ribosome c. Peroxisome d. Golgi bodies
3. Hemoglobin in man increases the oxygen carrying capacity of the blood to about:
  - a. 75 times b. 50 times c. 60 times d. 100 times
4. Respiratory activity which occurs in plants during the day time is called:
  - a. Respiration b. Transpiration c. Photorespiration d. Cutaneous respiration
5. Which one is the structure of the respiratory system of man?
  - a. Esophagus b. Larynx c. Syrinx d. Duodenum
6. All are made up of cartilage except:
  - a. Bronchiole b. Bronchi c. Trachea d. Larynx
7. Plasma proteins carry about % CO<sub>2</sub> from body fluids to lungs:
  - a. 1% b. 2% c. 5% d. 4%
8. Myoglobin occurs in:
  - a. Red blood cells b. White blood cells c. Muscle fibers d. Plasma
9. 100 ml of arterial blood of a human being contains CO<sub>2</sub>:
  - a. 50 ml b. 54 ml c. 56 ml d. 58 ml
10. Chlorophyll a is:
  - a. Red – green b. Yellow – green c. Orange – green d. Blue – green

### Subjective-Section

**Q. 2 Answer the following short questions: (6x2=12)**

1. Name the respiratory pigment of muscle and give its role.
2. Differentiate between diaphragm and pleura.
3. Where is carbonic anhydrase enzyme present? Give its role.
4. What is pulmonary tuberculosis? Write down its causes.
5. How do pH and temperature affect the capacity of hemoglobin to combine with oxygen?
6. Write down the disadvantage of gas exchange in a water environment.

**Q. 3 Answer the following long questions: (4+4=8)**

- (a) Define photorespiration. Explain its phenomenon.
- (b) Explain inspiration and expiration in man.