**Biology Ch # 13 T11 1stYear Time:75 Marks:40**

**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Objective**

**Q:1 Choose the Correct Answer.**  
**i In young stems which structures are responsible forgaseous exchange?**

1. stoma (b) stomata (c) lenticels (d) cuticle

**ii Conversion of glycolate into glycine during photorespiration occurs in**(a)chlorophyll (b)chloroplast (c)peroxisomes (d)mitochondria

**iii Trachea in cockroach is lined by**

(a) Ca (b)lignin (c)cuticle (d)chitin

**iv Single circuit heart is a characteristic feature of**

(a)Earthworm (b)cockroach (c)fish (d) frog

**V Main sites of respiration in birds are**

(a)air spaces (b)bronchus (c)parabronchi (d)air sacs

**Vi Normal breathing rate in man is**

1. 6-10 breath/min (b) 10-16 breath/min (c) 16 – 20 breath/min (d) 20 – 26 breath/min

**Vii A muscular passage lined by mucus membrane that channels the air to larynx**

(a) Trachea (b) bronchus (c) respiratory bronchiole (d)alveoli

**Viii Smooth muscles in the lungs are present in**

(a) Trachea (b)bronchi (c) bronchiole (d)alveoli

**Ix When hemoglobin is 98% saturated then the oxygen content per 100 ml of blood**

(a) 16.9 ml (b) 19.6ml (c)18ml (d) 18.6ml

**X Residual volumeof the lungs is**

(a) 5 liters (b)3.5 liters (c) 1.5 liters (d) 0.5 liters

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| **Q** | **1** | **2** | **3** | **4** | **5** | **6** | **7** | **8** | **9** | **10** | **11** | **12** | **13** | **14** | **15** | **16** | **17** | **18** | **19** | **20** |
| **a** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **b** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **c** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| **d** |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

**SUBJECTIVE**

**Section – I**

**Q:2Short Question (11 x 2 =22)**

1. How much co2 present in venous and arterial blood?
2. How bodies of the mammals respond during diving?
3. How hemoglobin is different from myoglobin?
4. What is RDS? ( Respiratory distress syndrome)
5. On which factors transport of oxygen depends?
6. What do you know about voice box?
7. Briefly explain the structure and function of gills?
8. How trachea is different from spiracles?
9. Differentiate b/w respiration and breathing?
10. What is emphysema?
11. What are the causes of Asthma and pulmonary tuberclosis?

**Section – II**

**Q:3: Long Question (4 + 4 = 8)**

1. What is photorespiration? Briefly explain its mechanism and consequences?
2. Write a note on carbon dioxide transport in human.