

**PON VIDYASHRAM, VALASARAVAKKAM**  
**BIOLOGY TEST PAPER**  
**STD XI**

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**I. Answer the following briefly:-**

**[ 3 x 10m = 30m ]**

1. Diffusion of gases occurs in the alveolar region only and not in other parts of the respiratory system why?
2. How is respiration regulated?
3. Name the components of the formed elements in the blood and mention functions of each of them.
4. (i) Differentiate between humph and blood .  
(ii) Differentiate between open and closed circulatory system.
5. Briefly describe the following.  
(a) Anemia (b) Angina pectoris (c) Athero sclerosis  
(d) Hyper tension (e) Heart failure (f) Erythroblast sis foetalis
6. Name atleast five different deficiency symptoms in plants. Describe them and correlate them with the concerned mineral deficiency.
7. Differentiate mitosis and meiosis .
8. Draw a labelled diagram of mitochondria and write its functions.
9. Discuss the various modifications of roots which provide mechanical support.
10. Compare the salient feature of five kingdoms.

**II. Answer in Details:-**

**[ 4 x 5m = 20m ]**

1. What is connective tissue? What are its main types.
2. Write classification of enzymes . Illustrate with an example in each class.
3. (i) Write schematic representation of Kreb's cycle.  
(ii) Describe Lactic acid fermentation.
4. (i) Draw the internal structure of human heart. Explain its working.  
(ii) Describe the Rh - in compactibility.

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