

**GOVT BOYS HR SEC SCHOOL,UTHIRAMERUR—603406.****Std:10 SCIENCE (Bio-L:12-16) Revision Test:3 Nov:2019. Marks:50 Time:1.30 Hrs.****I .Choose the correct answer.****6X1=6**

1.Oxygen is produced at what point during photosynthesis ?

- a) when ATP is converted to ADP      b)when CO<sub>2</sub> is fixed  
 c)when H<sub>2</sub>O is splitted                      d)All of these

2.The animals which give birth to young ones are

- a) Oviparous    b) Viviparous    c) Ovoviviparous    d) All the above

3Which is the sequence of correct blood flow

- a) ventricle - atrium - vein - arteries                      b) atrium - ventricle - veins - arteries  
 c) atrium - ventricle - arteries - vein                      d) ventricles - vein - atrium – arteries

4 Vomiting centre is located in

- (a) medulla oblongata      (b) stomach      (c) cerebrum      (d) hypothalamus

5.The hormone which has positive effect on apical dominance is:

- a) Cytokinin      b) Auxin      c) Gibberellin      d) Ethylene

6.Avena coleoptile test was conducted by

- a) Darwin      b) N. Smit      c) Paal                      d) F.W. Went

**II. Answer any 5 questions (QNo: 14 is Compulsory)****5X2=10**

7.i) \_\_\_\_\_ is a gaseous hormone involved in abscission of organs and acceleration of fruit ripening.

ii)Decreased secretion of thyroid hormones in the children leads to \_\_\_\_\_.

**8, True or false, If false write the correct statement**

i).Gibberellins cause parthenocarpy in tomato.

ii) Pituitary gland is divided into four lobes.

**9.Match the following**

- a)Symplastic pathway -- Leaf  
 b).Transpiration -- Plasmodesmata  
 c). Osmosis -- Pressure in xylem  
 d) Root Pressure -- Pressure gradient

10.What will you do to prevent leaf fall and fruit drop in plants? Support your answer with reason.

11.Name the parts of the hind brain.

12.When any dry plant material is kept in water, they swell up. Name and define the phenomenon involved in this change.

13.Why are the rings of cartilages found in trachea of rabbit?

14.Draw and label the structure of Mitochondria

**III. Answer any 5 questions (Q No 16 is compulsory)****5X4=20**

15.Differentiate the following

- a) Monocot root and Dicot root                      b) Aerobic and Anaerobic respiratio

16.Doctors use stethoscope to hear the sound of the heart. Why?

17. How does locomotion take place in leech?  
18. Classify neurons based on its structure.  
19. Enumerate the functions of blood.  
20. What is transpiration? Give the importance of transpiration.  
21. Illustrate the structure and functions of brain.  
22. (a) Name the gaseous plant hormone. Describe its three different actions in plants.  
(b) Which hormone is known as stress hormone in plants? Why?

**IV. Answer any two**

**2X7=14**

23. With a neat labelled diagram explain the structure of a neuron.

**(OR)**

24. Describe the structure and working of the human heart.

25.

a). Our body contains a large number of cells 'L' which are the longest cells in the body. L has long and short branch called as 'M' and 'N' respectively. There is a gap 'O' between two 'L' cells, through which nerve impulse transfer by release of chemical substance 'P'.

- (i) Name the cells L
- (ii) What are M and N?
- (iii) What is the gap O?
- (iv) Name the chemical substance P

b). Minerals in the plants are not lost when the leaf falls.

c). What is cohesion?

**(OR)**

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a). List out the parasitic adaptations in leech.

b). Write the reaction for photosynthesis?

**xxxOxxx**

**VVR / Utr**