

Kerala Board
Class X Biology
Sample Paper – 1

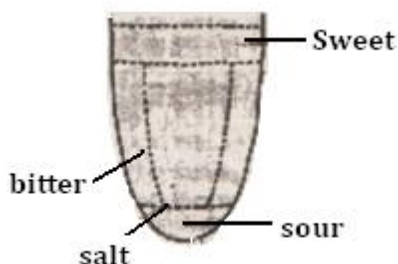
Time: 1½ Hours
Total Marks: 40
Instructions:

- 1) First 15 minutes are allowed as cool off time. During this period, read and
- 2) comprehend the questions well.
- 3) Answer all questions.
- 4) Answer anyone from question number 6 where choice is given.
- 5) Write all the sub sections of the choice you selected.
- 6) Score of each question is given against them.

1. Identify the match and arrange the table suitably. [3]

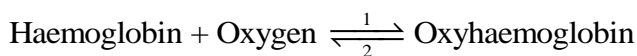
Parkinson Disease	Loss of Muscular Activities	Dopamine
Epilepsy	Strike the limbs and hands violently	Abnormal Impulse
Alzheimer Disease	Loss of Memory	Destruction of neurons

2. Analyse the following diagram and rearrange the labels in it. [2]



3. Find the odd one out and give reason for your answer. [1]
Axon, dendron, cyton, saccule
4. Pick the odd option and give its reason: [1]
Auxin, Acetylcholine, Cytokinin, Gibberellins
5. Write the missing words: [1]
Haemoglobin : RBC :: Fibrinogen : _____.
6. Write any two symptoms and one important way of prevention of Cholera. [3]
- 7.
- a. Fill in the blank with appropriate word: [1]
Calcium : Tetani :: _____ : Goitre
- b. Arrange the sequence of various parts of the reflex action in the correct order. [1]
1. Sensory neuron
 2. Receptor
 3. Muscles
 4. Motor neuron
 5. Interneuron
8. Write the name of the hormone that causes response or change in our body. [2]
- a) Development of beard and moustache in males.
 - b) Sudden increase of pulse rate and blood pressure.
 - c) The contraction of uterine wall.
 - d) Converts glucose to glycogen.
9. What are molecular scissors? Give one example. [2]

10.



- a. Where does the process 1 take place? [1]
- b. Where does the process 2 take place? [1]
- c. How does carbon monoxide interfere this process? [1]

11. Draw a flow chart to show the path of a nerve impulse. [2]

12. Briefly describe the Darwin's theory of evolution. [5]

13. Given below are the different steps in blood clotting. Identify the missing links.

- i. Platelets $\xrightarrow{\text{breakdown}}$ 1
- ii. Liver cells $\xrightarrow{\text{2vitamin}}$ Prothrombin
- iii. Prothrombin + Thromboplastin $\xrightarrow{\text{3ions}}$ thrombin
- iv. Thrombin + 4 \rightarrow Fibrin
- v. Fibrin + Blood cells \rightarrow clot

- a) What are the substances in box 1 and 4? [2]
- b) Name the vitamin and ions in 2 and 3. [2]

14. How is outer surface of the skin made waterproof and oily? [2]

15. In hilly areas, people suffer more from mental retardation and goitre. Health department decides to give them specially prepared salt. Answer the following questions:

- a. What may be the cause of these health problems? [1]
- b. How can the health department's decision be a remedy? [1]
- c. What are the other suggestions prescribed in their food habits? [1]

16. Which phytohormone performs the following functions?

[4]

- a.** Root initiation on stem cuttings
- b.** Development of seedless fruits
- c.** Flower opening is stimulated.
- d.** Closing of stomata