THIRUVANANTHAPURAM EDUCATIONAL DISTRICT

Standard X

BIOLOGY SAMPLE QUESTION PAPER-2

(Chemical messages For Homeostasis & Keeping Diseases Away)

	Time:45 minutes
l to2 carries 1 score each	(2x1=2)
rd pair relationship and fill in the blar : Glucagon :	nks.
: : Bombycol	
	: Glucagon :

2.Analyse the table and identify the correct pair.

a.Decrease of somatotropin during growth phase	Dwarfism
b.Increase in somatotropin after growth phase	Gigantism
c.Increase in somatotropin during growth phase	Acromegaly

II. Questions 3 to 6 carries 2 score each

(4x2=8)

3.Plant hormones and their functions are given in two boxes below.Pair them suitably.

- a. Auxin b. Ethylene
- c. Abscisic acid
- d. Gibberellin

FUNCTIONS

i.Break down of stored food in the seed ii.Cell division and cell differentiation iii.Promoting the growth of terminal buds iv.Helps in ripening of leaves and fruits v.Dropping of ripened leaves and fruits

1/2+1/2+1/2+1/2

4.Honey bees and termites live in colonies.

a)Name the chemical substance which helps them to live together. 1 b)Mention two uses of these chemical substances. 1/2+1/2 5. You are invited to present a seminar about the Cancer awareness, conducted by the Health Club.What explanation will you give to the ideas given below? 1

1

(2x3=6)

- a)Reasons for cancer
- **b)**Treatment of cancer

6.Examine the case sheet given below and answer the questions.

CaseI symptom **Excess blood is lost** even through minor wounds

a)Identify the disease mentioned in the case sheet. 1/2b)Why the patient lose blood excessively through minor wounds? 1 c)How can temporary relief be brought about for the disease? 1/2

Questions 7 to 8 carries 3 score each.

7. Given below are the major symptoms of diseases seen in two persons A and B.

Α	В
Persistent cough, loss of body weight Fatigue	High fever with shivering, Profuse sweating

a)Identify the diseases of both A and B	1/2+1/2
b)Write the pathogens which cause the diseases of A and B.	1/2+1/2
c)Write the vector of B's disease.	1/2
d)Name the vaccine used to prevent A's disease.	1/2



Shown above is one of the presentation slides prepared by Aravind ,as a part of Science club activity.

a)Which is the microbe mentioned in the slide?Name the disease caused		
by this microbe	1/2+1/2	
b)How does this affect the immunity of the body?	1	
c)Write any two ways by which one get infected with this microbe?	1/2+1/2	

IV.Question 9 carries 4 score

(4x1=4)

9.Examine the graph indicating the blood glucose level of different individuals before breakfast.



a)Which individual is affected by diabetis?Name the gland which regulate the glucose level in blood. 1/2+1/2

b)Write any one reason for diabetis.	1	
c)Write the major symptoms of diabetis.	1	
d)Write two actions of insulin to prevent the rise in level of glucose in the blood.		
	1/2+1/2	