MALAPPURAM

MPM **1006 A**

SSLC PRE MODEL EVALUATION JANUARY 2023

BIOLOGY

Time : 45 mts (English) Score : 20

Instructions

- **10 minutes is given as cool- off time.**
- **Use cool-off time to read the questions and plan your answers.**
- **Attempt the questions according to the instructions.**
- **Keep in mind, the score and time while answering the questions**

(Answer any four questions from Question no 1 to 5, each carries one score)

1.Identify the word pair relation and fill in the blank.

Dendrite : Part that receives impulses from adjacent neuron

Axon : .....? 1

2.Choose the wrong pair from the following .

a. Glaucoma- The reabsorption of aqueous humour does not occur

b. Colour blindness- can not distinguish colours

c. Cataract -Cornea become dry and opaque

d. Night blindness- Deficiency of Vitamin A. 1

3.Choose the artificial plant hormone that is used for harvesting fruits at the same time.

(a)Ethylene (b) Abscissic acid (c) Gibberellins (e) Auxins 1

4.Analyse the diseases given in the box and select the diseases that are not related with Thyroxin 1

Cretinism, Acromegaly, Myxoedema,Goitre, Dwarfism

5. Select the odd one and write the common features of others.

(Stapes, Malleus, Cochlea, Incus) 2

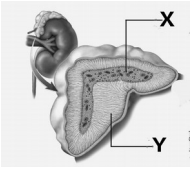
(Answer any thee questions from Question no.6 to 9. each carries two score)

6." With in the inner membranes of Meninges a fluid is seen, which is formed from the blood and is re absorbed in to the blood "

a. Which is the fluid mentioned above ? 1

b. Write its functions ? 1

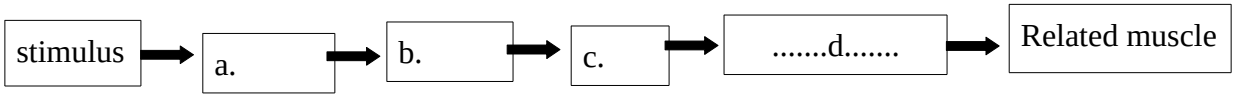
7. Observe the figure and answer the following questions



a. Identify the gland ? 1

b. Name the hormones produced by X ? 1

8.Complete the flow Chart related with Reflex action 2



9.Social insects such as Honey bees, termites etc, live in colonies due to the secretion of certain chemical substances, that act as chemical messengers.

a. What is the name of these chemical messengers. **1**

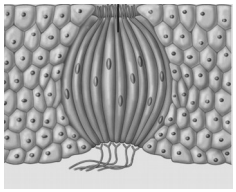
b. Give examples of two such chemical substances and the organisms that produces them. **1**

(Answer any two questions from Question no.10 to 12. each carries three score)

10. Complete the table given below **3**

Gland	Hormone	Disease	Symptoms
Pancreas	.....a.....	Diabetes	.....b.....
Hypothalamus	Vasopressin	.....c.....	.....d.....
Pituitary	.....e.....	.....f.....	Growth of the bones on the face, jaws and fingers

11. Analyse the figure and answer the following questions.



a. Identify the receptor in the figure ? 1

b. Write the flow chart of the process which is related with this receptor ? 2

12. The blood test result before break fast is given below. Analyse it and answer the questions

Glucose- 230mg/100ml blood

a. identify the disease ? **1**

b. Explain the reason for the disease? **2**

(Answer any two questions from Question no.13 to 14. each carries four score)

13.Redraw the diagram given below. Identify the name indicated and label the parts **4**



a. The part refracts light rays in to the eye .

b . The part that adjusts its size as the intensity of light varies .

c. The part of Retina where plenty of photoreceptors are seen

14. Redraw the diagram given below. Identify the name indicated and label the parts **4**

a. Part that receives impulses ?

b. part that secretes neurotransmitter?

c. Carries impulses to outside ?

