## GREENLAWNS SCHOOL, WORLI FINAL EXAMINATION: 2023-24 BIOLOGY

	BIOLOGY	
Std: VIII		Marks: 80
Date: 13/02/2024		Time: 2 hrs
You will <b>not</b> be allowed to write during the f Question paper. The time given at the head answers.	•	•
I A) Select the correct answers to the qu (Do not copy the question. Write the	e i	[10]
<ol> <li>Which one of the following is not the (a) Reading (b) Yoga</li> </ol>	correct way of managing stress? (c) Cooking (d) Exercise	
<ul> <li>2) Semen is a mixture of sperms and set (a) Seminal vesicles, Prostate and T (b) Seminal vesicles, Prostate and C (c) Epididymis, Prostate and Testes (d) Epididymis, Prostate and Cowpeter</li> </ul>	estes cowper's	
<ul> <li>3) The correct order of the whorls of the (a) Calyx, Androecium, Gynoecium,</li> <li>(b) Calyx, Gynoecium, Androecium,</li> <li>(c) Corolla, Calyx, Androecium, Gyn</li> <li>(d) Calyx, Corolla, Androecium, Gyn</li> </ul>	Corolla Corolla oecium	
<ul><li>4) The basic structural and functional ur</li><li>(a) Cyton</li><li>(b) Axon</li></ul>	nit of brain is: (c) Neuron (d) Nephron	
5) Islets of Langerhans are located in th (a) Pancreas (b) Kidneys	e: (c) Throat (d) Brain	
<ul><li>6) Layering is a method of:</li><li>(a) Sexual reproduction</li><li>(b) Artificial vegetative propagation</li></ul>	(c) Artificial pollination (d) Cross-pollination	
<ul><li>7) The white matter of cerebrum mainly</li><li>(a) Cytons</li></ul>	consists of: (c) Dendrons	

(a)	Cytons	(C)	Denarons
(b)	Axons	(d)	Dendrites

- 8) The thin-walled sac of skin in which testis are located is:
  - (a) Seminal vesicle

(c) Scrotal sac

(d) Epididymis

- (b) Vas deferens
- 9) Playing a musical instrument is an example of:
  - (a) Natural reflex
  - (c) Acquired reflex (b) Conditioned reflex (d) Both b and c
- 10) The hormone which stimulates the thyroid gland to produce thyroxine is:
  - (a) Prolactin

- (c) Follicle stimulating hormone
- (b) Thyroid stimulating hormone
- (d) Thyroxine hormone
- B) State whether the following statements are true or false. If false, rewrite the correct [5] statement by changing the underlined word / words:
  - 1) Auricles are bigger in size and their walls are thicker, elastic and muscular.
  - 2) The use of iodised salt is recommended for thyroid deficiencies.
  - 3) Budding is a common method of reproduction in Amoeba.
  - 4) Lotus is pollinated by insects.
  - 5) There are thirty one pairs of spinal nerves.
- C) Fill in the blanks: [5] 1) Sneezing is an example of \_\_\_\_\_ reflex. 2) The uterus opens to the outside through a long, muscular tube called 3) \_\_\_\_\_ is called the master gland. 4) Flower having both male and female reproductive parts on the same plant are called flowers. The heart is a muscular organ made up of specialised muscles called \_\_\_\_\_ muscles. D) Match the items in column I with the appropriate items in column II. [5] Column I Column II 1) Blood (a) Thyroid gland
  - (b) Pear shaped 2) Lymph 3) Prolactin (c) Closed circulatory system 4) Adrenaline (d) Pituitary gland 5) Uterus (e) Open circulatory system (f) Adrenal gland
- E) Give one difference between the following pairs on the basis of what is indicated in [5] the bracket (Answer only in tabular form).
  - 1) Fragmentation and spore formation (a plant reproducing by this method)
  - 2) Male and female (hormone secreted)
  - 3) Sensory and motor neurons (function)
  - 4) Arteries and veins (direction of blood flow)

## 5) Pituitary and thyroid gland (location in the body)

- F) Explain the following terms:
  - 1) Adolescence
  - 2) Implantation
  - 3) Pollination
- G) State functions of each of the following:
  - 1) Calyx
  - 2) Coronary artery

4) Glucagon
 5) Epididymis

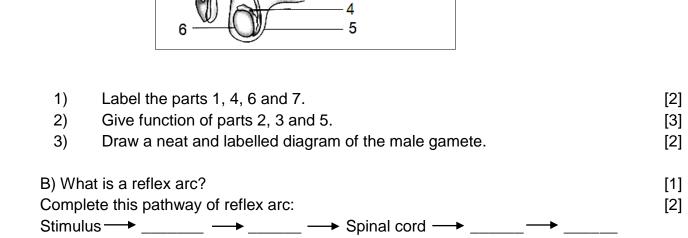
4) Synapse

5) Reflex action

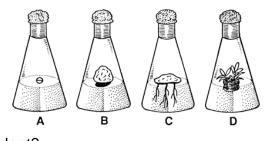
- 3) Medulla oblongata
- II A) Given below is the schematic diagram of the sectional view of the human male reproductive system:

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Prostate gland



III A) The figure below represents one of the methods of propagation of plants.



1) What is an explant?[1]2) Why are the explants treated with sterilization chemicals?[½]3) What is callus? What is added to callus?[1]4) Name one plant grown by this technique.[½]5) Mention one benefit of this technique.[1]

[5]

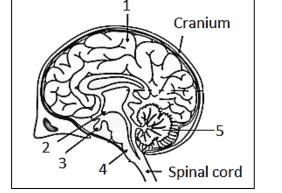
[5]

B) How does a single cell fertilized egg grows into an adult human body?

IV A) The figure below represents internal structure of the human heart.

- C) List any two important physical changes in boys and girls that take place during puberty.
- D) What are hormones?
- 1) Label parts 1, 2, 5 and 7.[2]2) Name the valves 6 and 8.[1]3) Distinguish between 3 and 4.[1]4) How is the heart protected?[1]B) State two disadvantages of Vegetative reproduction.[2]
- C) Describe a neat and labelled diagram of a nerve cell. [3]

V A) The figure below shows brain in median section:



<ol> <li>Name parts 2 and 4.</li> <li>Give functions of any two hormones of part 2</li> </ol>	[1] [2]
part 3. 3) State the functions of part 1 and 5. 4) How is the arrangement of neurons in the Spinal cord.	[2] [1]

B) Give scientific reasons for the following:

- 1) Blood circulation in humans is called double circulation.
- 2) Sympathetic and parasympathetic systems are antagonistic in their actions.

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[4]

[1]

[3]

[2]