

KOMARASAMY GOUNDER MAT.HR.SEC.SCHOOL – KURUMANDUR

MONTHLY TEST – JULY -2023

X – STANDARD

SCIENCE

TIME : 1.30 HOURS

SCIENCE = UNIT : 10 & 16

MAXIMUM MARKS : 50

PART – A

I.CHOOSE THE CORRECT ANSWER :

10 X 1 = 10

1. Which one is helps in the breakdown of glycogen to glucose in the liver

- a) Insulin b) epinephrine c) Glucagon d) both b & c

2. Which one is referred as “Master gland”?

- a) Pineal gland b) Pituitary gland
c) Thyroid gland d) Adrenal gland

3. Inadequate supply of iodine in our diet causes

- a) Myxoedema b) Hyperdension c) cretinism d) Goitre

4. Which one of the following hormone is naturally not found in plants.

- a) 2,4 - D b) GA 3 c) Gibberllin d) IAA

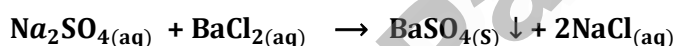
5. The hormone which has negative effects on apical dominance is

- a) Auxin b)Cytokinin c) Gibberllin d) ABA

6. The normal pH of Human saliva is.....

- a) 6 - 8 b) 1 c) 3.5 d) 4.2

7. The chemical equation



represents which of the following types of reaction ?

- a) Neutralization b) Combustion
c) Precipitation d) Single displacement

8. The pH of a solution is 3. Its (OH⁻) concentration is

- a) 11 M b) 1 x 10⁻¹¹ M c) 3 M d) 1 x 10⁻³ M

9. Photolysis is decomposition reaction caused by

- a) Heat b) Electricity
c) Light d) Mechanical energy

10 . The molecule is dissociated by the absorption of heat it is otherwise called

- a) Photolysis b) Thermolysis
c) Generalised scheme d) Displacement

PART – BILANSWER ANY FIVE OF THE FOLLOWING :5 X 2 = 10QUESTION NUMBER “15” IS COMPULSORY

11. Which one is called life saving hormone. Why? Give reason.
12. What is the role of parathormone ?
13. Answer the following :
 - i) Write the name of a synthetic auxins .
 - ii) Which hormone is always called personality hormone ?
14. What is meant Richmond lang effects?
15. Lemon juice has a pH 2 , What is the concentration of H^+ ions .
16. When does the reaction rate of a reaction increase on raising the temperature.
17. All combustion reactions are oxidations but all oxidations are not combustions. Why ?

PART - C

III. ANSWER ANY FOUR OF THE FOLLOWING : 4 X 4 = 16
 QUESTION NUMBER "22" IS COMPULSORY.

18. i) What are synthetic auxins ? give example.
 ii) Draw the structure of pancreas and label the parts
19. i) Draw the structure of thyroid gland and label the parts.
 ii) Bring out any two physiological activities of abscisic acid.
20. What are the conditions which occurs due to lack of ADH and insulin ? How are the conditions differ from one another.
21. Differentiate between Reversible and irreversible reaction.
- 22.i) The hydrogen ion concentration of a fruit juice is $3.3 \times 10^{-2} M$. What is the pH of the juice ? is it acidic or basic ?
 ii) Laundry detergent has a pH 8.5 , What is the concentration of H^+ ions ?
23. A solid compound ' A ' decomposes on heating into 'B' and a gas 'C' On passing the 'C' through water , it becomes acidic. Identify A , B and C.

PART - D

IV. ANSWER THE FOLLOWING : 2 X 7 = 14

24. i) Which is called supra renal gland? State its location ?
 ii) Draw the structure of these gland and label the parts.
 iii) Find the hormones and write the functions .

OR

A plant hormones was first discovered in Japan. When rice plants were suffering from bakanae disease caused *Gibberella fujikorai* .Based on this information answer the following questions.

- a) Identify the hormones involved in this process.
- b) Which property of this hormone causes the disease ?
- c) Give the functions of this hormones.

25. Explaining the factors influencing the rate of reaction.

Or

- i) How does pH play an important role in every day life.**
- ii) Write the difference between combination and decomposition reaction.**

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