



# JAFFNA HINDU COLLEGE

## First Term Exam - 2023

Grade - 07

Science

Time: - 2 Hours

Name/Index No: .....

### Part – I

#### ❖ Underline the most suitable answer

01) To which group does cycas belong?

1. Flowering plants

2. Non – Flowering plants

3. Monocotyledonous plants

4. Dicotyledonous plants

02) A plant having storage root is

1. Betel

2. Sugar cane

3. Pandanus

4. Sweet potato

03) What property of water is used to make drinks

1. Coolant property

2. Medium of life property

3. Solvent property

4. Insulator property

04) A feature of monocotyledonous plant is,

1. Fibrous root system

2. Branched system

3. Reticulate venation

4. Flower petals four or five or its multiples

05) The positive terminal of the simple cell is,

1. Aluminum sheet

2. Zinc sheet

3. Copper sheet

4. Carbon sheet

06) What is the method of dispersal of given seed?

1. By wind

2. By water

3. By animals

4. By explosion



07) The symbol for the electronic component that is shown nearby,



1.

2.

3.

4.

08) Which group contains warm blooded animal?

1. Human, fish

2. Snake, toad

3. Parrot, bat

4. Snake, bat

09)



A



B



C



D

Which of the above is a compound leaf?

1. A

2. B

3. C

4. D

10) The scientist who first carried out experiments on lightning

1. Benjamin Franklin

2. William Gilbert

3. Galileo Galilei

4. Mircheal Faraday

(10 x 2 = 20)

❖ Fill in the blanks using the correct words

01) The generation of electricity in conductor when magnetic field is cutting with conductor is known as.....

02) .....is an equipment used to identify static electrical charges on laboratory?

03) The production of .....is the main function of androecium.

04) The standard unit to measure electric current is .....

05) The juice in sugar cane contains.....dissolved in water.

(5 x 2 = 10)

❖ Mark ( ✓ ) if the statement is correct or ( X ) if the statement is incorrect

01) Electro static charges are generated on the surface of objects, when they are rubbed ( )

02) Urea is formed in the kidneys ( )

03) The anther is a part of androecium ( )

04) The efficiency of the dynamo can be increased by increasing the number of turns of the coil ( )

05) Radio is an equipment that can store static electric charges ( )

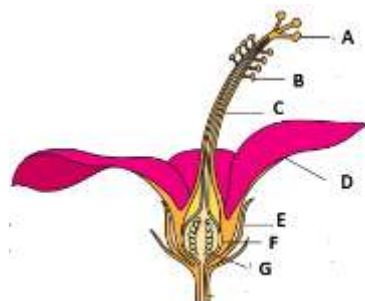
(5 x 2 = 10)

## Part II

❖ Answer all questions.

(01) Flowers are more attractive parts of the plants. The longitudinal section of a flower is given below

A.



i) Label the parts denoted by A, C and F

A-..... C-..... F.....

(03 marks)

ii) The parts A, C and F belongs to?

.....

(01 mark)

iii) Which part of the flower becomes fruit after pollination?

.....  
(01 mark)

iv) Give a function of part D?

.....  
(02 marks)

v) What letter denotes the anther?

.....  
(01 mark)

B. The given below shows the picture of fruits and seeds collected by a group of students.



P



Q



R



S

i. Give the factor that help to dispersal of the above seeds P, Q, R and S

P-.....

Q-.....

R-.....

S-.....

(02 mark)

ii. Give an adaptation of Q for the dispersal of seeds.

.....

(01 mark)

iii. Give an advantage of the dispersal of seeds.

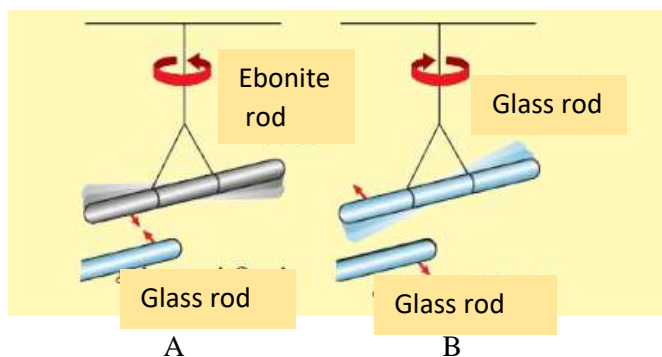
.....

(01 mark)

(Total = 12 marks)

(02)

A. Given below is an activity carried out in a laboratory on static electric chargers, answer the following questions based on it.



I. What is the type of static electric charges on a glass rod rubbed with silk?

.....  
(1 mark)

II. Consider the above instances A and B. In which instance there will be attraction and repulsion occurs between the rods.

Attraction.....

Repulsion.....

(2 marks)

III. Write the reason for the attraction and repulsion?

.....

(1 mark)

B. The diagram below shows the equipments that generate electricity



I. What is the name given to the equipment that generate electricity?

.....

(1 mark)

II. Name the equipment shown as A,B,C and D

A .....

C.....

B.....

D.....

(2 marks)

III. Which equipment generates electricity by moving?

.....

(1 mark)

IV. Which type of current is produced by equipment C?

.....

(1 mark)

V. Name the materials that are found in equipment A?

.....

(1 mark)

VI. Give an equipment that generate electricity that is not shown in the above diagram?

.....

(1 mark)

VII. Which element is used for manufacturing above mentioned equipment?

.....

(1 mark)

(Total = 12 marks)

(03) We use several substance at home for day to day activities

(Soap, distilled water, sugar solution, vinegar, baking soda, pineapple juice)

A. Classify the above as acid, base and neutral substances and complete the table.

Acid	Base	Neutral

(3 marks)

I. Give a feature of acidic substance?

.....

(1 mark)

II. Give a basic substance is used in the laboratory

.....

(1 mark)

III. Which substance is used as treatment for bee stings? Give the reason?

.....

(3 marks)

IV.



Sodium hydroxide

+

Phenolphthalein

(a) What is the colour of the solution in the test tube?

.....

(1 mark)

(b) What substance act as an indicator?

.....

(1 mark)

(c) Which substance is taken for treating gastritis?

.....

(1 mark)

(d) Which is the universal indicator in laboratory?

.....

(1 mark)

(Total = 12 marks)

(04)A. Given below are some organisms were observed by the students in a field visit.



Give the suitable word for following descriptions.

I. The ability of organisms adapt to their environment  
.....  
(1 mark)

II. Blending of body colour to particular environment  
.....  
(1 mark)

III. What is the structural adaptation of fish to efficient in locomotion?  
.....  
(1 mark)

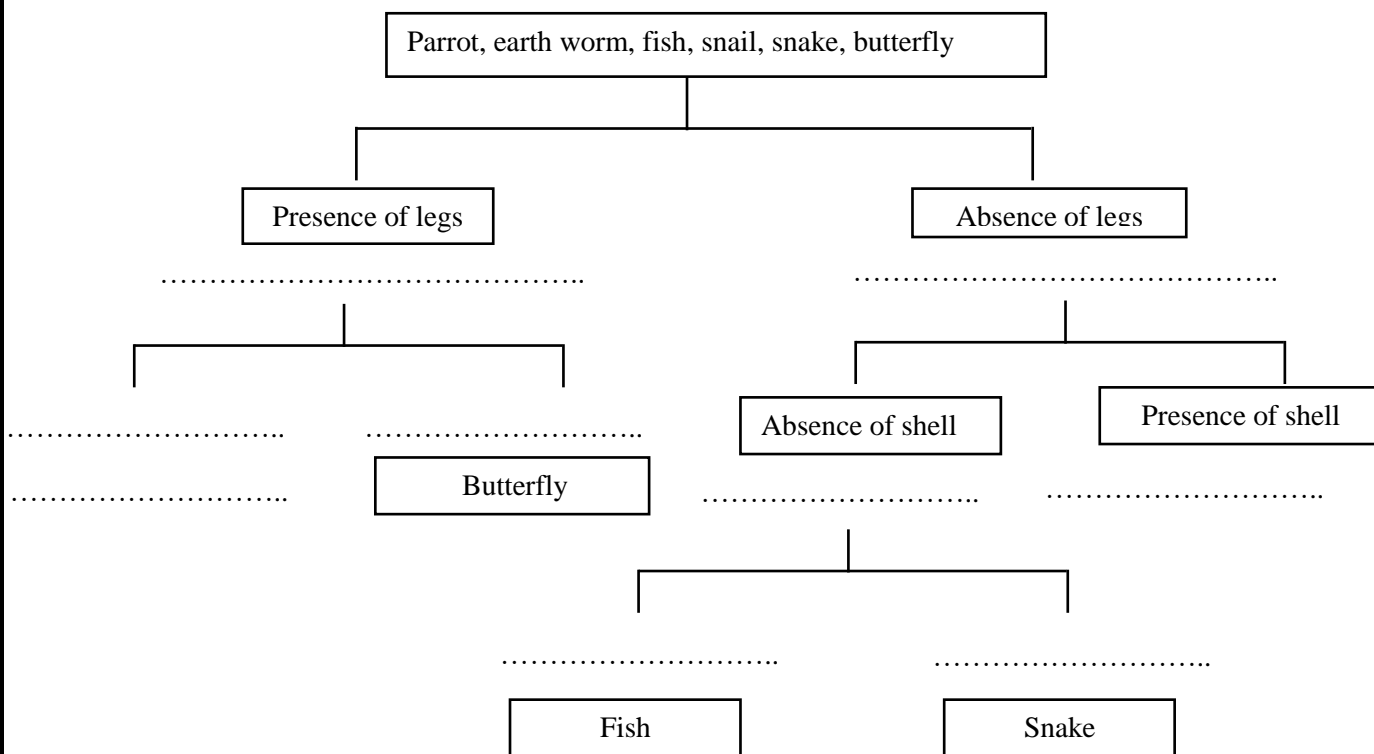
IV. Complete the table using above animals

Vertebrates	Invertebrates

1. Which animal show camouflage?  
.....  
(1/2 mark)

2. Give a benefit of camouflage?  
.....  
(1/2 marks)

B. Complete the blanks given in the dichotomous key.



(5 marks)

(05)

The diagram shows a setup arranged in laboratory

I. Name the setup shown here

.....

(1 mark)

II. Identify the terminals of above setup

.....

(2 marks)

III. What is the positive terminal of this setup?

..... (1 mark)

IV. Write 2 observation that can be seen in the above arrangement

..... (2 marks)

V. What is the solution taken in the vessel?

..... (2 marks)

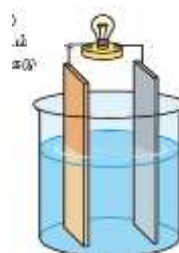
VI. Give 2 weakness of above cell type?

..... (2 marks)

VII. Name the setup constructed using several cells?

..... (2 marks)

(Total = 12 marks)







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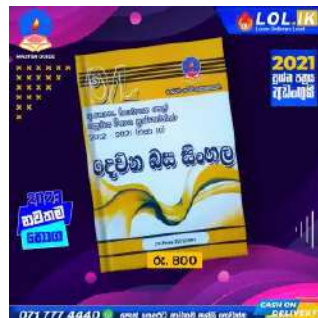
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