2022

Kerala Board

# First Term

## Question Paper

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# SAMAGRA SHIKSHA, KERALA
# FIRST TERM EVALUATION 2022 - 23
# BASIC SCIENCE

E 606

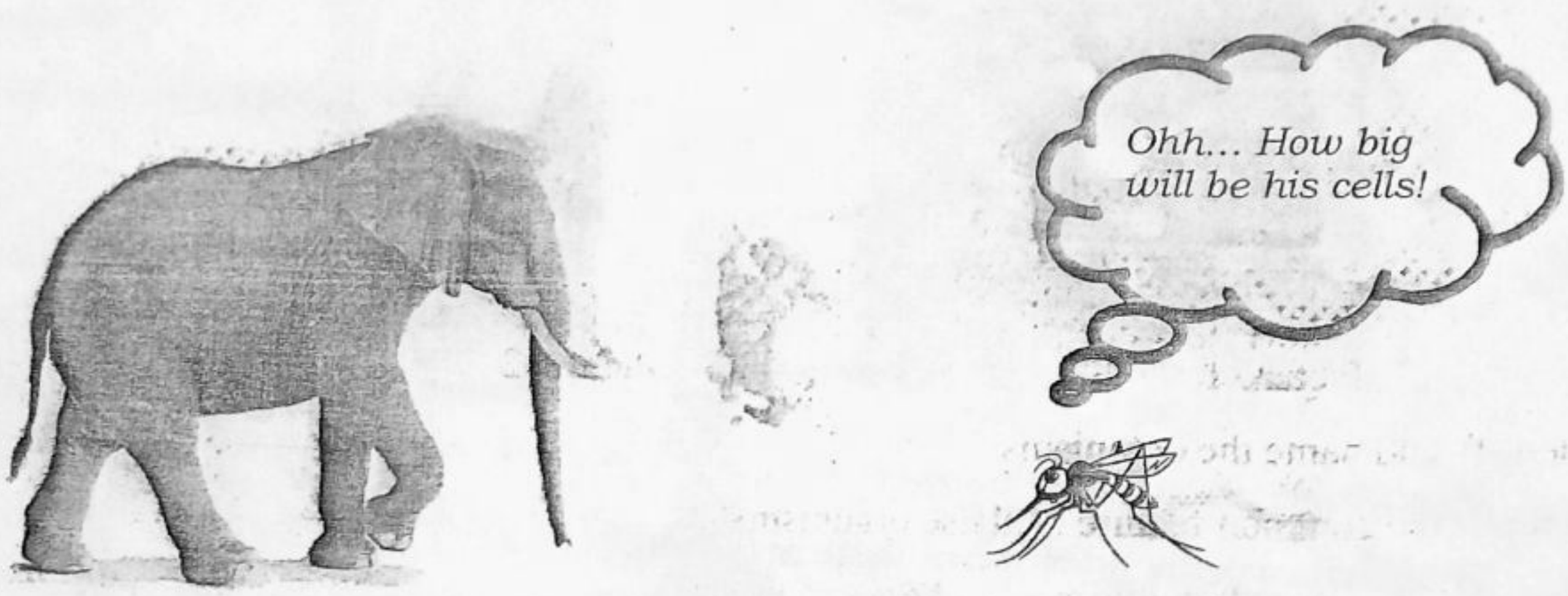
**Class : 6** **Time : 2 hrs**

**INSTRUCTIONS**

- First 15 minutes is cool off time. This time should be used to read and understand the activities.
- Total 10 activities are given. Answer any 8 activities.

**Activity 1**

Observe the cartoon.




A. Do you agree with Mosquito's thought? Give reasons.

B. Different stages of observation of cheek cells is given below. Arrange them in the correct order.

Scrap the internal surface of the cheek using a new toothbrush.

Place the cheek scrap in a drop of water taken on the slide.

Cover it with the cover glass

Wash the mouth thoroughly with pure water.

Add a drop of stain

Observe the specimen through the microscope.

1. Wash the mouth thoroughly with clean water
2. .....
3. .....
4. .....
5. .....
6. Observe the specimen through the microscope.



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**Activity 2**

A. Complete the table related to the various changes taking place in the kitchen.

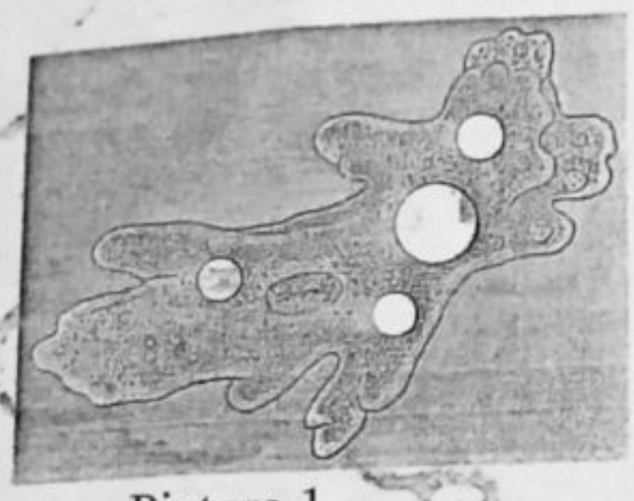
| | Chemical Changes |
|---|---|
| (i) ..... | Milk turns to curd |
| Ghee Melts | (iv) ..... |
| (ii) ..... | (v) ..... |
| (iii) ..... | |

B. 'Both chemical and physical changes are taking place while burning a candle.'

Do you agree with this statement? Justify your answer.

**Activity 3**

Observe the picture given below.



Picture 1

Picture 2

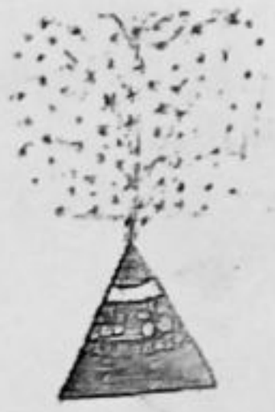
A. Identify and name the organisms?.

B. What is the common feature of these organisms?

C. Describe the procedure to observe these organisms.

**Activity 4**

Observe the following situations.



Situation 1

Situation 2

Situation 3

Situation 4

A. Complete the table.

| Situation | Forms of energy that undergoes change | Forms of energy produced | Forms of energy we make use of |
|---|---|---|---|
| 1 | Chemical Energy | (i) ..... | Light, sound |
| 2 | (ii) ..... | Heat, light, sound | (iii) ..... |
| 3 | Chemical energy | (iv) ..... | (v) ..... |
| 4 | Electrical energy | (vi) ..... | Light |

B. Analyse the table and write any two findings.



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**Activity 5**

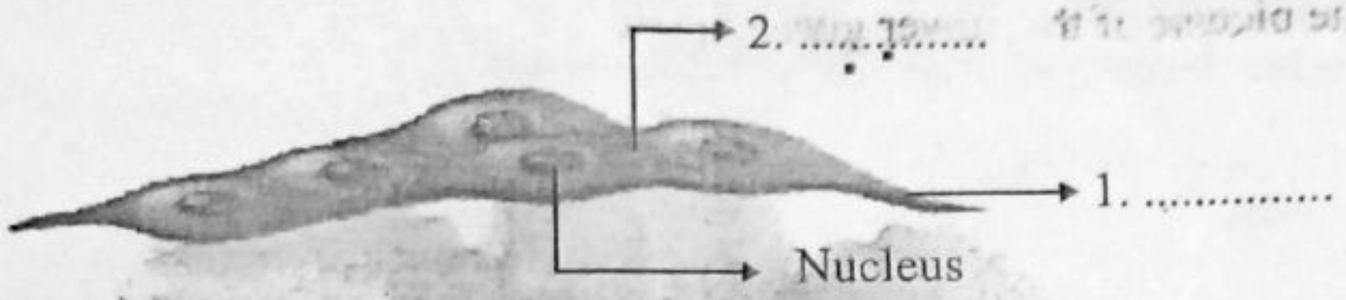
Observe the pictures.

Picture 1

Picture 2

A. Identify the cells and write their names.

B. Write the names of parts marked as 1 and 2 in the picture of muscle cell given below.

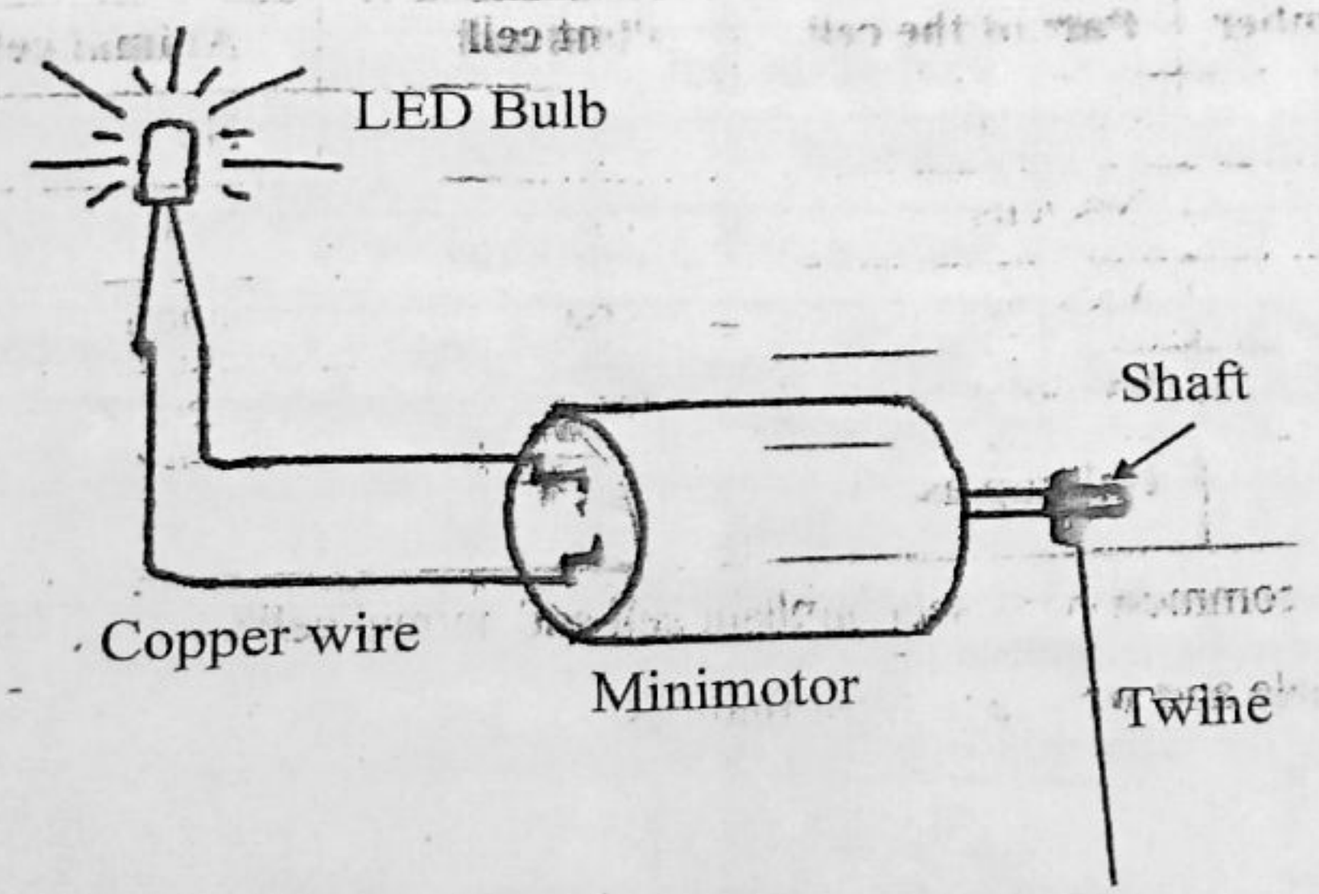



C. Parts of the cell and their peculiarities are given in the table below. Match them suitably.

| Parts of the cell | Peculiarities |
|---|---|
| Cytoplasm | Centre of the cell |
| Nucleus | Helps in photosynthesis |
| Cell membrane | Matrix filled inside the cell |
| Chloroplast | Covering of the cell |

**Activity 6**

Observe the picture of a device which can glow an LED bulb using minimotor.




When the shaft of minimotor is rotated fast using a twine, the LED bulb glows.

A. List out the energy changes taking place in this activity.

B. What are the energy changes taking place while a cell is used instead of minimotor?

C. Write any other situation in which energy change takes place?



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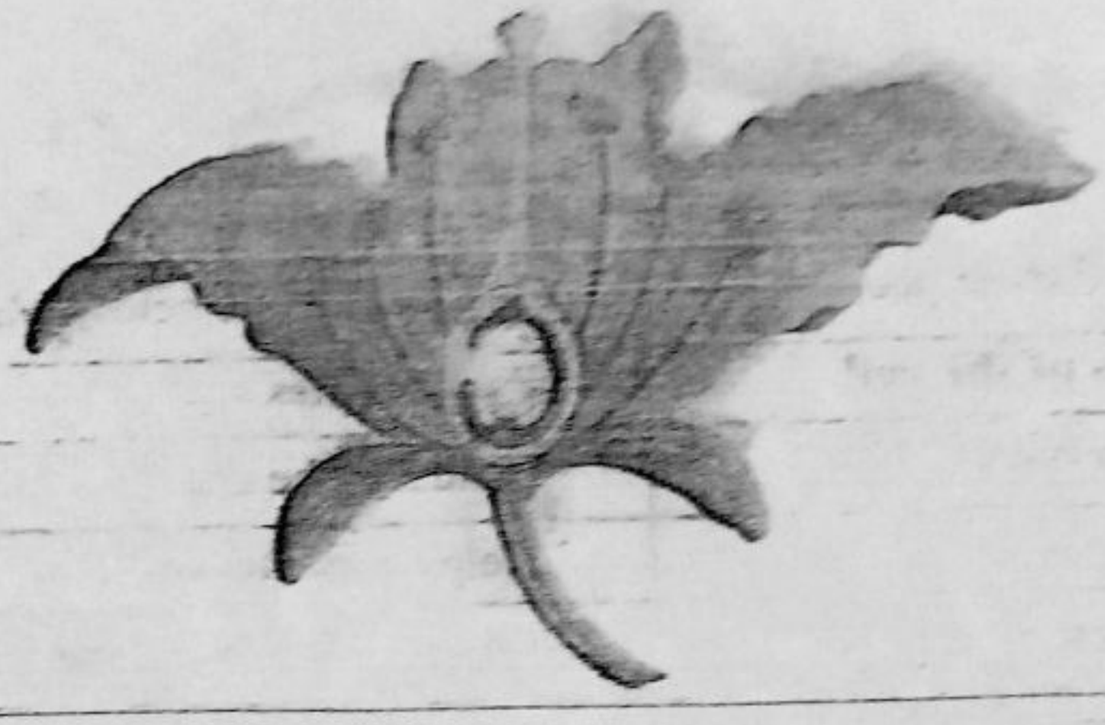
**Activity 7**

Parts of a flower and their functions are given in the flash cards.

| | | |
|---|---|---|
| **Pedicel** (i) ..... | (ii) ..... Holds different parts of flowers | **Corolla** (iii) ..... |
| (iv)..... Female reproduction part | **Androecium** (v) ..... | **Calyx** (vi) ..... |

A. Complete the flash cards.

Observe the picture of the flower given below.



B. Is the flower, unisexual or bisexual? Why?

**Activity 8**

Examine the table

| Number | Part of the cell | Plant cell | Animal cell |
|---|---|---|---|
| 1. | Cell wall | Yes | No |
| 2. | Nucleus | Yes | Yes |
| 3. | Vacuole | Large | small |
| 4. | Cytoplasm | Yes | Yes |
| 5. | Chloroplast | Yes | No |

A. Which are the common parts seen in plant cell and animal cell?

B. Analyse the table and write any three findings.

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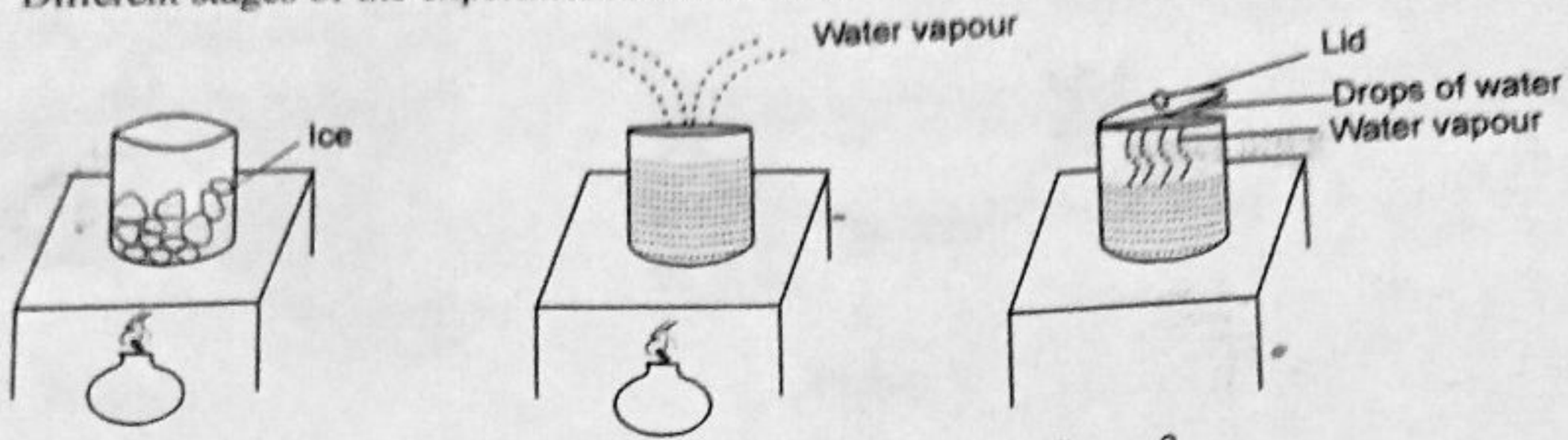
**Activity 9**

Different stages of the experiment related to state of change of water are given below.



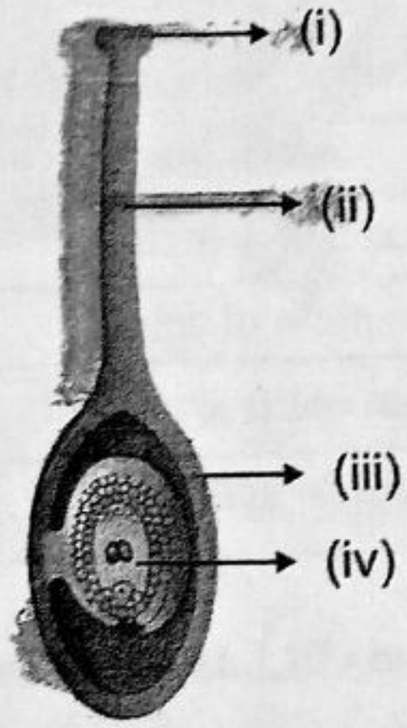

Stage 1 Stage 2 Stage 3

A. Write any three findings of this experiment.

B. On the basis of this experiment, explain how rain is formed?

**Activity 10**

Observe the picture given below.




A. Draw the picture and label the parts.

B. Where are the male gametes seen in a flower? Explain.



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