



Q.F. No. 107

**MODEL ACADEMY**  
(THE PRESTIGIOUS SCHOOL OF MIER)

**Class: 7th**  
**Subject: Science**

**Session Ending Exam 2019-20**  
**Sample Paper**

**Time: 2hr 30 min**  
**Max. Marks: 80**

Q.1 Multiple choice questions:

(1X5=5)

Choose the correct option:

- Which of these denotes a concave lens image?  
(a) real, same size, inverted      (b) real, magnified, inverted  
(c) virtual, magnified, erect      (d) virtual, diminished, erect
- Which of these is not the reason for depletion of water table?  
(a) increase in population      (b) increase in food production  
(c) deforestation      (d) drip irrigation
- Which of these is not true about forests?  
(a) cools the atmosphere      (b) prevents soil erosion  
(c) absorbs oxygen      (d) absorbs carbon dioxide
- Which of these is seen only in a tornado?  
(a) lightning      (b) rotating wind funnel      (c) eye      (d) thunder
- Which of the following has a heating element with a low melting point?  
(a) electric bell      (b) electric iron      (c) fuse      (d) all of these

OR

Litmus paper turns \_\_\_

- a) blue in a base      b) blue in a acid      c) red in a acid      d) red in a base

Q.2 .Fill in the blanks:

(1X5=5)

- \_\_\_\_\_ is the flow of electric power or charge through a conducting material.
- The central calm portion of a cyclone is called its \_\_\_\_\_.
- In a convex lens , rays parallel to the principal axis \_\_\_\_\_.

4. \_\_\_\_\_ are huge masses of condensed water vapour that float in the air.

OR

\_\_\_\_\_ carries deoxygenated blood to the heart.

5. \_\_\_\_\_ forests are found in temperate regions.

Q.3 Very short answer questions: (1X10=10)

1. Write the symbols of Arsenic and Magnesium.

2. Write the names of two organic acids.

3. What is the function of a white blood cell.

4. Name the part of the flower that contains male gametes.

5. Write two factors which determine the time period of a simple pendulum.

6. Name the device when two or more cells are joined together.

7. Define rectilinear propagation of light.

8. By what process do wet clothes dry?

OR

At what temperature do the freezing of water and the melting of ice take place?

9. Name the tallest layer in a rainforest.

10. What is effluent?

Q.3 Short answer questions: (3x10=30)

1. When forests are cut, soil erosion occurs. Why?

2. What is the disadvantage of open drains for sewage? Why should oils and fats not be poured down the kitchen sink?

OR

What is an electromagnet? In an electromagnet, what is the advantage of the iron core?

3. Is prevention of water pollution a part of water conservation? Give reasons.

4. What is the principal focus of (i) a concave mirror (ii) a convex mirror?

5. What is air pressure? Why do we observe winds blowing towards the equator?

6. Define electric circuit? What is a solenoid?

OR

What is meant by lateral inversion?

7. Differentiate between uniform and non-uniform motion.

8. What is the difference between self-pollination and cross-pollination? Explain it with examples.

9. Define osmosis .What is guttation?

OR

What is a cyclone?

10. What is an indicator? Name three substances that we use as indicators.

Q.5 Long Answer Questions:

(5x6=30)

1. Distinguish between concave and convex mirrors.

2. What precautions should you take during and after a storm?

OR

What are the characteristics of images formed by a plane mirror?

3. What is a solenoid? Outline an experiment to demonstrate the magnetic effect of a solenoid.

OR

Write a short note on tornadoes and their effects.

4. What is afforestation? How is it useful in conserving water?

5. Name the sources of waste water and the kinds of contaminants present in each.

OR

What are decomposers? Explain the role that they play in a forest.

6. Draw the following diagrams:

(a) Wind vane  
of wind direction.

(b) Show optical Centre, principal axis, principal focus and focal length

of convex lens.

