

# LORVEN PUBLIC SCHOOL

Anekal Road, Chandapura, Bangalore - 99

Annual Exam – 2020

Class: VIII

SCIENCE

**Time: 1 hr 30 minutes**

**Marks: 40**

- I. Choose the correct answer & write the complete answer. 4×1=4**
- The degree of hotness of a body is called  
a. Heat      b. Temperature      c. Pressure      d. Volume.
  - \_\_\_\_\_ is known as 'Father of Biology'  
a. Theophrastus      b. Aristotle      c. Carl Linnaeus      d. Parashara
  - Seed develops from  
a. Ovary      b. Ovule      c. Embryo      d. Embryo sac
  - Scientist who discovered electron is  
a. Goldstein      b. JJ Thomson      c. James      d. Newton
- II. Answer the following questions. 4×1=4**
- What is dispersion of white light?
  - State Newton's third law of motion.
  - Define biotic and abiotic components with example.
  - What are cathode rays?
- III. Answer the following questions. 5×2=10**
- Distinguish between heat and temperature.
  - Define potential energy and kinetic energy with an example each.
  - List any two differences between a Plant cell and Animal cell.
  - Define a) combination      b) decomposition
  - Draw a neat labelled diagram to show the production of chlorine gas.
- IV. Answer the following questions. 3×3=9**
- Draw a ray diagram to get an image formed by a concave mirror when the object is kept between centre of curvature and the focus. Write the nature of the image.
  - Mention the casual organism, symptom and preventive measure of the diseases Cholera and Malaria.
  - Classify the following as combination, displacement or decomposition.  
a)  $\text{Pb}(\text{NO}_3)_2 \rightarrow 2\text{PbO} + 4\text{NO}_2 + \text{O}_2$   
b)  $\text{NH}_3 + \text{HCl} \rightarrow \text{NH}_4\text{Cl}$   
c)  $\text{Fe} + \text{CuSO}_4 \rightarrow \text{FeSO}_4 + \text{Cu}$
- V. Answer the following questions. 2×4=8**
- Describe an activity to show that sound requires a material medium for its propagation?
  - a) Differentiate between homogeneous solution and heterogeneous solution  
b) Name the products formed when the following oxides are dissolved in water i) sulphur dioxide ii) calcium oxide (write equations)
- VI. Answer the following question 1×5=5**
- Explain the process of respiration in human beings.