

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.