

# J.R.M. INTERNATIONAL SCHOOL

Achhnera Road, Sahai, Bichpuri, Agra

Session 2024-25

Holiday Homework

Class – 11<sup>th</sup>

---

## 1. Physics:

**Que 1.** Explain Kepler's law for planetary motion.

**Que 2.** Give the formula for the acceleration due to gravity below the surface of the earth.

**Que 3.** Give the formula for the acceleration due to gravity above the surface of the earth.

**Que 4.** What do you mean by satellite?

**Que 5.** Explain Lunar Eclipse and Solar Eclipse.

**Que 6.** Explain the term centre of mass.

**Que 7.** Prove work energy theorem.

**Que 8.** Explain centripetal and centrifugal force.

**Que 9.** Explain the term electric charge and electric field.

**Que 10.** Explain and give principle of electric generator.

## 2. Mathematics:

Do all examples of chapter 1 & 2 from NCERT book and R. D. Sharma book.

Make a project file on following topics, according to their roll number.

**Topic 1.** History of Indian Mathematicians Sridhara.

**Topic 2.** Make a chart on the topic set theory.

**Topic 3.** Draw graphs on type of functions along with domain and range. Write application of functions.

**Topic 4.** Make a chart of formula of trigonometric functions and write its uses in day to day life.

**Topic 5.** Mathematics and Chemistry.

**Topic 6.** History of Indian Mathematician Varahamihir.

**Topic 7.** Application of conic sections and 3d - geometry.

### **3. English:**

Make a milky file on parts of literature and kinds define each topic properly and well presented.

### **4. Biology:**

**Topic 1.** Alimentary canal of Indian Frog.

**Topic 2.** Section of Human Heart.

**Topic 3.** The Human Brain.

**Topic 4.** Position of floral part on thalamus.

**Topic 5.** Types of chromosomes.

**Topic 6.** Human Excretory System.

**Topic 7.** Human Respiratory System.

**Note:** To make a neat and well – labeled non working model on the given topics.