

# PHYSICS 12 ELECTROSTATICS NOTES

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**What are electrostatics class 12 notes?** The subject of the electrical effect of charges at rest is called electrostatics. When both electrical and magnetic effect are present, the interaction between charges is referred to as electromagnetic. There exist two types of charges in nature: positive and negative. Like charges repel, and unlike charges attract.

**What is the law of electrostatic notes?** Coulomb's law of electrostatics states that the magnitude at which electrostatic charges repel or attract is “directly proportionate” to the magnitude of charges when multiplied. It is also proportionally inverse to the square distance between the charges.

**What are the topics of electrostatic chapter?** Important Topics of Electrostatics Chapter Electric field due to continuous charge distribution. Electric dipole and dipole moment. Gauss Law. Electric potential and Equipotential surface.

**What is the electrostatic force in physics notes?** The electrostatic force acts over a distance of about one-tenth of an atomic nucleus' diameter, or  $10^{-16}$  m. Similar charges repel each other, while dissimilar charges attract each other. Two positively charged protons, like two cations, two negatively charged electrons, or two anions, repel each other.

**Is electrostatics easy chapter?** Electrostatics holds about 6% to 7% of weightage in the JEE Advanced paper, and it is also of the utmost importance in the final examination as well. This is one of the easiest chapters when compared to the other units.

**What are the basics of electrostatics?** electrostatics, the study of electromagnetic phenomena that occur when there are no moving charges—i.e., after a static

equilibrium has been established. Charges reach their equilibrium positions rapidly, because the electric force is extremely strong.

**What is the basic rule of electrostatics?** Like charges repel each other; unlike charges attract. Thus, two negative charges repel one another, while a positive charge attracts a negative charge.

**What is 2 law of electrostatics?** Coulomb's second law:- the magnitude of force between two bodies when placed near to each other is directly proportional to product of their strength and inversely proportional to the square of distance between them.

**What are the five basic principles of electrostatics?**

**What are 3 examples of electrostatic?**

**What is Q in electrostatics?** Electric charge (symbol  $q$ , sometimes  $Q$ ) is the physical property of matter that causes it to experience a force when placed in an electromagnetic field.

**What is k in electrostatics?** The constant of proportionality  $k$  is called Coulomb's constant. In SI units, the constant  $k$  has the value  $k = 8.99 \times 10^9 \text{ N} \cdot \text{m}^2 / \text{C}^2$ .

**What is the law of electrostatics notes?** Statement: The electrostatic force acting between two point charges is – (a) Directly proportional to the product of charges and (b) Inversely proportional to the square of their distance. (c) It acts along the line joining the charges. i.e. If two charges  $q$  and  $Q$  are placed in air at a.

**What is n in electrostatics?** - Amount of electrons ( $n$ ) which is responsible for the charge ( $Q$  in  $\text{C}$ ) that is transferred to a object due. to each electrons individual charge ( $qe$ ).

**What is the summary of electrostatics?** Electrostatics, as the name implies, is the study of stationary electric charges. A rod of plastic rubbed with fur or a rod of glass rubbed with silk will attract small pieces of paper and is said to be electrically charged.

**What is electrostatic energy class 12?** Solution. It is defined as the amount of work done in assembling the charges at their locations by bringing them in from infinity. shaalaa.com. Concept: Electrostatic Potential and Potential Energy.

**What is the definition of electrostatics?** Electrostatic Definition The electric force acting between static charges is called an electrostatic force. Coulomb's law is an experimental law of physics that explains the magnitude of this force acting between electrical charges in terms of the magnitude of each charge and the distance between their centers.

**What is electrostatic field in physics class 12?** Electric/electrostatic field is produced by the electric charge or can be produced by time-varying magnetic fields. In neutral particles, the total number of protons are equal to the total number of electrons. In positively charged particles, the total number of protons is more than the total number of electrons.

**What is electrostatic force class 12?** The electrostatic force is an attractive and repulsive force between particles are caused due to their electric charges. The electric force between stationary charged bodies is conventionally known as the electrostatic force. It is also referred to as Columb's force.

### **Stranded in Paradise: The Kihanna Saga 3 by Mercy Amare**

In the captivating novel "Stranded in Paradise," Mercy Amare weaves a tale of love, adventure, and redemption that transports readers to the idyllic shores of Kihanna. This third installment in the series follows the journey of Alethea, a woman who finds herself stranded on a secluded island after a plane crash.

#### **Q: What happens to Alethea after the plane crash?**

A: Stranded on Kihanna, Alethea is befriended by the island's enigmatic inhabitants. She encounters handsome locals, including the enigmatic Prince Makena, who helps her navigate the challenges of her new surroundings.

#### **Q: How does Alethea adapt to life on Kihanna?**

A: Despite the initial shock of being stranded, Alethea embraces the beauty and simplicity of island life. She learns to fish, weave, and connect with the community's traditions. However, she also faces dangers from the island's untamed wilderness and its hidden secrets.

**Q: What is the significance of Prince Makena?**

A: Prince Makena plays a pivotal role in Alethea's journey. His authority and knowledge of Kihanna prove invaluable, and his growing attraction to Alethea tests their forbidden love.

**Q: How does the novel explore themes of redemption and forgiveness?**

A: Alethea's time on Kihanna forces her to confront her past mistakes and seek redemption. Through her experiences, she learns the importance of forgiveness and letting go of the burdens that have held her back.

**Q: Does Alethea find happiness on Kihanna?**

A: The novel's conclusion leaves readers with a sense of hope and possibility. Although Alethea's future remains uncertain, she has grown as a person and found solace in the paradise she once feared.

## **The Crisis of the Modern World: René Guénon's Analysis**

### **Who was René Guénon?**

René Guénon (1886-1951) was a French philosopher, Traditionalist, and metaphysician. He is best known for his influential writings on the decline of the modern world and the need for a return to traditional values.

### **What is the Crisis of the Modern World?**

According to Guénon, the modern world is in a state of deep crisis. This crisis is characterized by a loss of traditional values, a decline in spiritual authority, and a widespread materialism and secularism.

### **What are the Causes of the Crisis?**

Guénon attributed the crisis of the modern world to several factors, including:

- The rise of rationalism and empiricism, which undermined traditional beliefs and values.
- The Industrial Revolution, which led to widespread social and economic disruption.
- The French Revolution, which destroyed traditional institutions and established a secular state.

### **What are the Consequences of the Crisis?**

The consequences of the crisis of the modern world are profound. They include:

- A loss of meaning and purpose in life.
- A decline in morality and social cohesion.
- An increase in violence and conflict.
- Environmental degradation.

### **What is the Solution to the Crisis?**

Guénon believed that the only way to solve the crisis of the modern world is through a return to traditional values. This means embracing the timeless truths that have been handed down from ancient times and living in accordance with them.

### **Temple of the Cosmos: The Ancient Egyptian Experience of the Sacred**

The Temple of the Cosmos was a sacred space in ancient Egypt where the divine was experienced and celebrated. This temple represented the cosmos, the ordered universe that the ancient Egyptians believed in. It was a place where the people could connect with the gods, ask for their guidance, and participate in rituals that ensured the balance and harmony of the universe.

*What is the Temple of the Cosmos?*

The Temple of the Cosmos was a physical manifestation of the ancient Egyptian cosmology. It was a sacred space where the divine was experienced and celebrated. The temple was divided into different sections, each representing a different aspect

of the cosmos. There were chapels dedicated to the different gods, as well as spaces for rituals and ceremonies.

*What was the purpose of the Temple of Cosmos?*

The Temple of the Cosmos was a place where the ancient Egyptians could connect with the gods and ask for their guidance. It was also a place where rituals and ceremonies were performed to ensure the balance and harmony of the universe. The temple was a microcosm of the cosmos, and the rituals and ceremonies that took place there were meant to reflect the order and harmony of the universe.

*What was the experience of the sacred at the Temple of the Cosmos like?*

The experience of the sacred at the Temple of the Cosmos was a profound one. The temple was a place where the divine was experienced and celebrated. The rituals and ceremonies that took place there were designed to create a sense of awe and wonder in the participants. The temple was a place where the people could connect with the gods and ask for their guidance. It was also a place where they could experience the beauty and order of the universe.

*What is the legacy of the Temple of the Cosmos?*

The Temple of the Cosmos is a testament to the ancient Egyptian's profound understanding of the cosmos and their deep connection to the divine. The temple continues to inspire people today with its beauty and its message of hope and harmony. The temple is a reminder that we are all part of a larger order and that we can find peace and meaning in our lives by connecting with the divine.

*How can we experience the sacred today?*

We can experience the sacred today in many of the same ways that the ancient Egyptians did. By connecting with nature, spending time in meditation and prayer, and participating in community rituals and ceremonies, we can open ourselves up to the experience of the divine. The sacred is all around us, and it is waiting to be discovered.

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