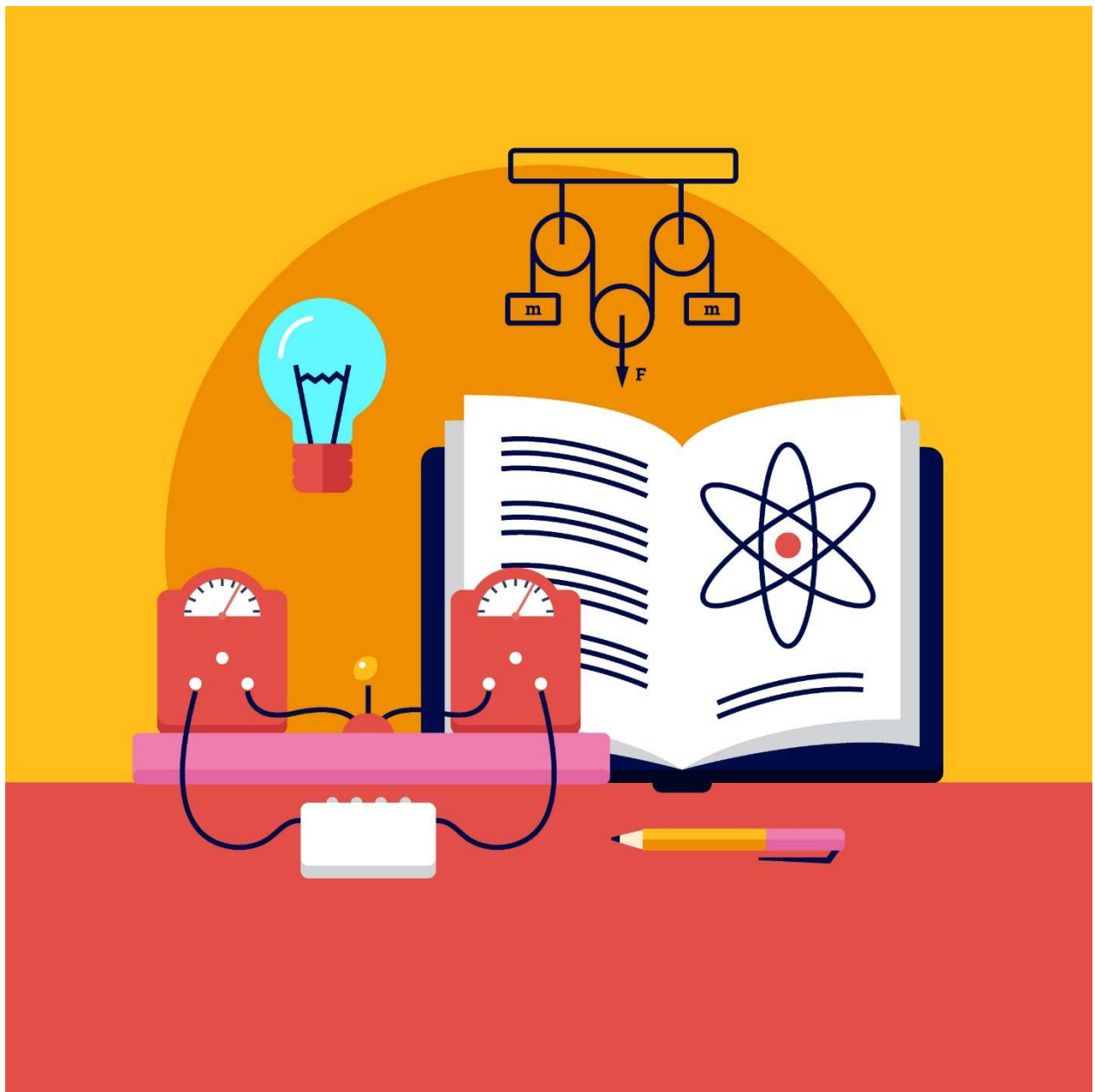


MCQs for Self Test

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Physics

Class XII

In class 12, Gyansrota is covering the following 15 chapters of Physics

Electric Charges and Fields

Electrostatic Potential and Capacitance

Current Electricity

Moving Charges and Magnetism

Magnetism and Matter

Electromagnetic Induction

Alternating Current

Electromagnetic Waves

Ray Optics and Optical Instruments

Wave Optics

Dual Nature of radiation and matter

Atoms

Nuclei

Semiconductor Electronics: Materials, Devices and Simple Circuits

Communication Systems

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Question 1. When a glass rod is rubbed with silk, it

(a) gains electrons from silk.

(b) gives electrons to silk.

(c) gains protons from silk.

(d) gives protons to silk.

Answer: (b)

Question 2. In general, metallic ropes are suspended on the carriers taking inflammable materials. The reason is

(a) to control the speed of the carrier.

(b) to keep the centre of gravity of the carrier nearer to the earth.

(c) to keep the body of the carrier in contact with the earth.

(d) none of these.

Answer: (c)

Question 3. Two charges q_1 and q_2 are placed in a vacuum at a distance d and the force acting between them is F . If a medium of dielectric constant 4 is introduced around them, the force now will be _____ .

a) $4F$

b) $2F$

c) $F/2$

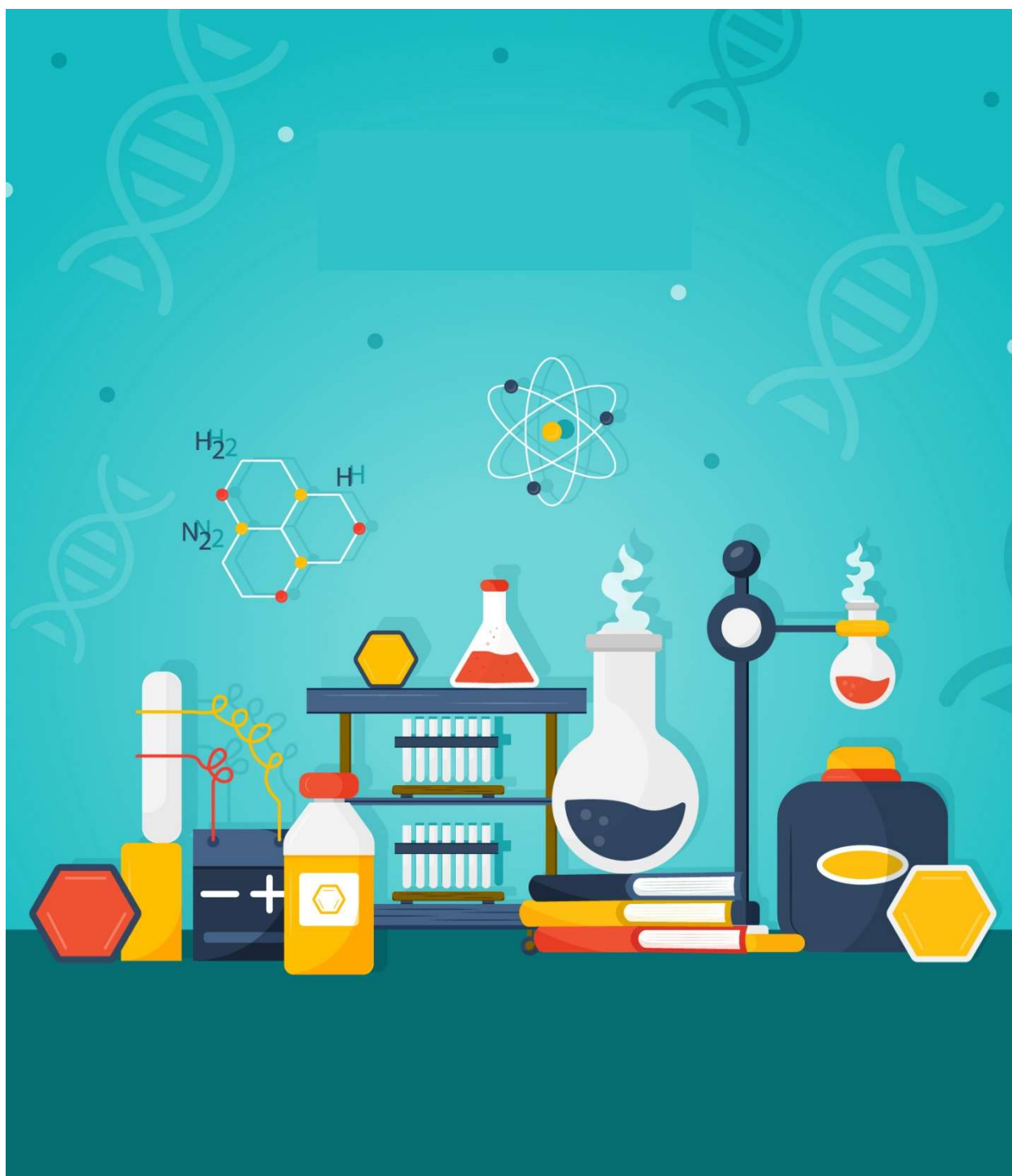
d) $F/4$

Answer: (d)

Question 4. When 10^{14} electrons are removed from a neutral metal sphere, the charge on the sphere becomes _____.

- a) $4\mu\text{C}$
- b) $9\mu\text{C}$
- c) $10\mu\text{C}$
- d) $16\mu\text{C}$

Answer: (b)



Chemistry

Class XII

In class 12, Gyansrota is covering the following 16 chapters of Chemistry

The Solid State

Solutions

Electrochemistry

Chemical Kinetics

Surface Chemistry

General Principles and process of isolation of elements

The p-block Elements

The d & f block Elements

Coordination Compounds

Haloalkanes and Haloarenes

Alcohols, Phenols, and Ethers

Aldehydes, Ketones and Carboxylic Acids

Amines

Biomolecules

Polymers

Chemistry in everyday life

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get an MCQ app for self-testing. Here are some sample questions from the bank of questions that will be available in the full version of the app.

Question 1. Which of the following properties does not define a crystalline solid?

- (a) When cut into pieces, have irregular surface
- (b) Isotropic in nature
- (c) Anisotropic in nature
- (d) Both (a) and (b)

Answer: (d)

Question 2. Solid CO₂ is an example of

Covalent solid

Metallic solid

Molecular solid

Ionic solid

Answer: (C)

Question 3. Which of the following statement is true?

- (a) Molecular crystal are very hard and incompressible
- (b) Ionic crystals have very low volatility.
- (c) Metallic bond is directional and rigid.
- (d) Boron nitride has an ionic crystal structure.

Answer: (b)

Question 4. The number of unit cells in 58.5 g of NaCl is nearly

(a) 6×10^{20}

(b) 3×10^{22}

(c) 1.5×10^{23}

(d) 0.5×10^{24}

Answer: (C)



Mathematics

Class XII

In class 12, Gyansrota is covering the following 13 chapters of Mathematics

Relations and Functions

Inverse Trigonometric Functions

Matrices

Determinants

Continuity and Differentiability

Application of Derivatives

Integrals

Application of Integrals

Differential Equations

Vector Algebra

Three-Dimensional Geometry

Linear Programming

Probability

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Question 1. Given set $A = \{a, b, c\}$. An identity relation in set A is

- (a) $R = \{(a, b), (a, c)\}$
- (b) $R = \{(a, a), (b, b), (c, c)\}$
- (c) $R = \{(a, a), (b, b), (c, c), (a, c)\}$
- (d) $R = \{(c, a), (b, a), (a, a)\}$

Answer: (b)

Question 2. The function $f : A \rightarrow B$ defined by $f(x) = 4x + 7, x \in R$ is

- (a) one-one
- (b) Even
- (c) Odd
- (d) Many-one

Answer: (a)

Question 3. If $f : R \rightarrow R, g : R \rightarrow R$ and $h : R \rightarrow R$ is such that $f(x) = x^2$, $g(x) = \tan x$ and $h(x) = \log x$, then the value of $[h \circ (g \circ f)](x)$, if $x = \sqrt{\pi}/2$ will be

- (a) 0
- (b) 1
- (c) -1
- (d) π

Answer: (a)

Question 4. The number of binary operations that can be defined on a set of 2 elements is

- (a) 8
- (b) 4
- (c) 16
- (d) 64

Answer: (C)



Biology

Class XII

In class 12, Gyansrota is covering the following 16 chapters of Biology

Reproduction in Organisms

Sexual Reproduction in Flowering Plants

Human Reproduction

Reproductive Health

Principles of Inheritance and Variation

Molecular Basis of Inheritance

Evolution

Human Health and Diseases

Strategies for Enhancement in Food Production

Microbes in Human Welfare

Biotechnology Principles and Processes

Biotechnology and Its Application

Organisms and Populations

Ecosystem

Biodiversity and Conservation

Environmental Issues

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Question 1. The terms homothallic and monoecious are used to denote

- (a) Unisexual condition
- (b) Bisexual condition
- (c) Staminate flowers
- (d) Pistillate flower

Answer: (b)

Question 2. In animals, juvenile phase is followed by

- (a) Reproductive phase
- (b) Senescent phase
- (c) Old age
- (d) Vegetative phase

Answer: (a)

Question 3. External fertilisation occurs in majority of

- (a) Fungi
- (b) Liverworts
- (c) Algae
- (d) Mosses

Answer: (C)

Question 4. Vegetative propagation in Pistia occurs by

- (a) Sucker
- (b) Offset
- (c) Runner
- (d) Rhizome

Answer: (b)