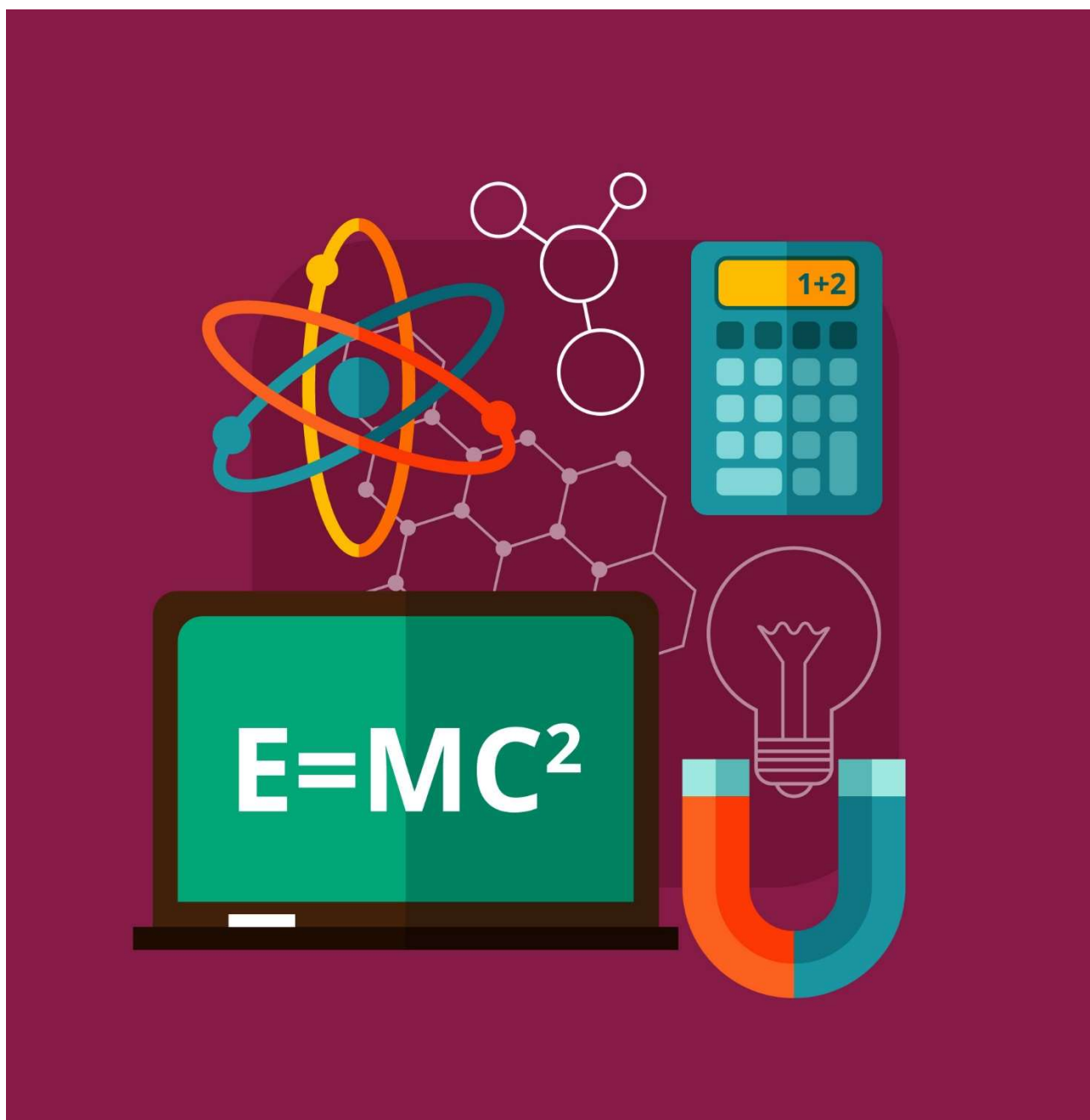


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# Physics

Class XI

***In class 11, Gyansrota is covering the following 15 chapters of Physics***

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**Units and Measurements**

**Motion in a straight line**

**Motion in a plane**

**Laws of Motion**

**Work, Energy, and Power**

**System of Particles and Rotational Motion**

**Gravitation**

**Mechanical Properties of Solids**

**Mechanical Properties of Fluids**

**Thermal Properties of Matter**

**Thermodynamics**

**Kinetic Theory**

**Oscillations**

**Waves**

---

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Question 1. The word Science originates from the Latin verb Scientia meaning

- (a) To know
- (b) To see
- (c) To experience
- (d) To observe

Answer: (a)

Question 2. Atomic and molecular phenomena are dealt with by

- (a) Newtonian Mechanics
- (b) fluid Mechanics
- (c) Applied Mechanics
- (d) Quantum Mechanics

Answer: (d)

Question 3. The wave picture of light failed to explain.

- (a) The photoelectric effect
- (b) Polarization of light
- (c) Diffraction of light
- (d) Interference of light

Answer: (a)

Question 4. The heliocentric theory proposed by Nicolas Copernicus was

- (a) replaced by circular orbits to fit the data better
- (b) replaced by elliptical orbits to fit the data better
- (c) replaced by elliptical orbits to fit the taste of the new rulers of Italy
- (d) replaced by parabolic orbits to fit the data better

Answer: (b)



# Chemistry

Class XI

## ***In class 11, Gyansrota is covering the following 14 chapters of Chemistry***

---

*Some basic concepts of chemistry*

*Structure of atom*

*Classification of elements and periodicity in properties*

*Chemical Bonding and Molecular Structure*

*States of Matter*

*Thermodynamics*

*Equilibrium*

*Redox Reactions*

*Hydrogen*

*The s-block elements*

*The p-block elements*

*Organic Chemistry-Some basic principle and techniques*

*Hydrocarbons*

*Environmental Chemistry*

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Question 1. Approximate atomic weight of an element is 26.89 and its equivalent weight is 8.9. Find the exact atomic weight of element would be

- (a) 15.36
- (b) 10.9
- (c) 26.7
- (d) 37.72

Answer: (c)

Question 2. The number of moles present in 6 gm of carbon is:

- (a) 0.5
- (b) 0.2
- (c) 9
- (d) 1

Answer: (a)

Question 3. What is the concentration of nitrate ions if equal volumes of 0.1 M  $\text{AgNO}_3$  and 0.1 M  $\text{NaCl}$  are mixed together

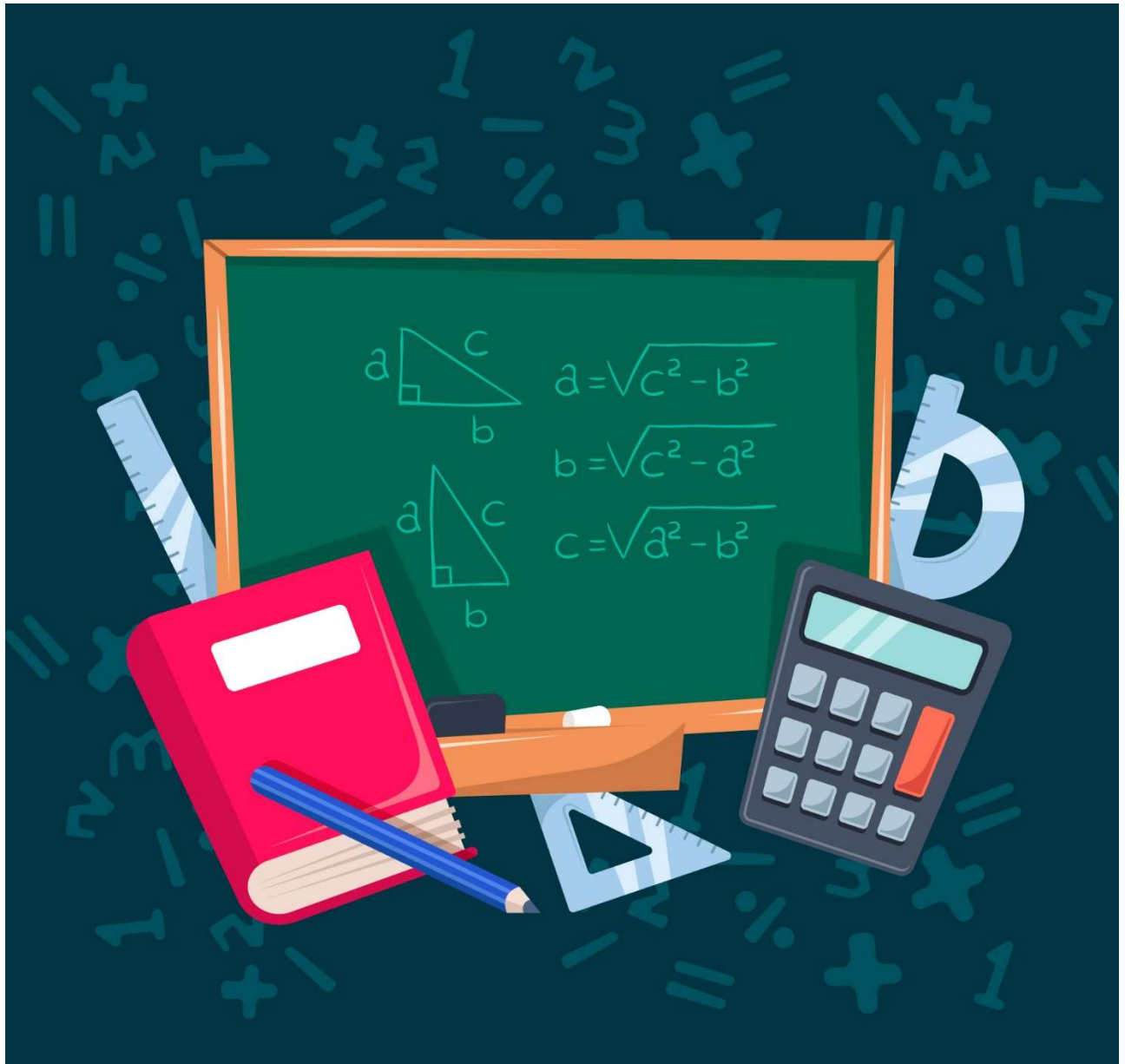
- (a) 0.4 N
- (b) 0.07 M
- (c) 0.05 M
- (d) 0.2 M

Answer: (C)

Question 4. The -ve charged particles is called:

- (a) Cation
- (b) Anion
- (c) Atom
- (d) Radical

Answer: (b)



# Mathematics

Class XI



***In class 11, Gyansrota is covering the following 16 chapters of Mathematics***

---

*Sets*

*Relations and Functions*

*Trigonometric Functions*

*Principle of Mathematical Induction*

*Complex Numbers and Quadratic Equations*

*Linear Inequalities*

*Permutations and Combinations*

*Binomial Theorem*

*Sequences and Series*

*Straight Lines*

*Conic Sections*

*Introduction to Three-Dimensional Geometry*

*Limits and Derivatives*

*Mathematical Reasoning*

*Statistics*

*Probability*

---

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Question 1. If  $R = \{(2, 1), (4, 3), (4, 5)\}$ , then range of the function is?

- (a) Range  $R = \{2, 3, 5\}$
- (b) Range  $R = \{1, 3, 5\}$
- (c) Range  $R = \{3, 4, 5\}$
- (d) Range  $R = \{2, 1, 4, 5\}$

Answer: (b)

Question 2. If  $A = [3, 6, 7]$  and  $B = [7, 1, 4]$  then  $A \cup B$  is equal to

- (a)  $[1, 3, 4, 6, 7]$
- (b)  $[4, 6, 7]$
- (c)  $[1, 3, 4]$
- (d) None of these

Answer: (a)

Question 3. Which of the following sets are null sets

- (a)  $\{x: x < 5, x > 6\}$
- (b) 2 and 3
- (c) Set of all prime numbers between 15 and 19
- (d)  $\{x: |x| < -4, x \in \mathbb{N}\}$

Answer: (b)

Question 4.  $\{(A, B): A^2 + B^2 = 1\}$  on the sets has the following relation

- (a) Reflexive
- (b) Symmetric
- (c) Reflexive and transitive
- (d) None of the above

Answer: (b)



# Biology

Class XI

## ***In class 11, Gyansrota is covering the following 22 chapters of Biology***

---

*The Living World*

*Biological Classification*

*Plant Kingdom*

*Animal Kingdom*

*Morphology of Flowering Plants*

*Anatomy of Flowering Plants*

*Structural Organization in Animals*

*Cell the Unit of Life*

*Biomolecules*

*Cell Cycle and Cell Division*

*Transport in Plants*

*Mineral Nutrition*

*Photosynthesis in Higher Plants*

*Respiration in Plants*

*Plant Growth and Development*

*Digestion and Absorption*

*Breathing and Exchange of Gases*

*Body Fluids and Circulation*

*Excretory Products and their Elimination*

*Locomotion and Movement*

*Neural Control and Coordination*

*Chemical Coordination and integration*

---

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Question 1. *Musca domestica* is a common name of

- (a) Housefly
- (b) Mosquito
- (c) Snail
- (d) Ant

Answer: (a)

Question 2. Keystone species are

- (a) Important for the ecosystem
- (b) Important for plants
- (c) Endangered species
- (d) Extinct species

Answer: (a)

Question 3. The study of fish culture is called

- (a) Ophiology
- (b) Herpetology
- (c) Ichthyology
- (d) Pisciculture

Answer: (d)

Question 4. National Botanical Research Institute is located in

- (a) Shimla
- (b) Dehradun
- (c) Howrah
- (d) Lucknow

Answer: (d)