

Class :10Register
Number**FIRST REVISION EXAMINATION - JANUARY - 2024**

Time Allowed : 3.00 Hours]

SCIENCE

[Max. Marks : 75

PART - 1

Choose the correct answer.

12x1=12

- One kilogram force equals to
 - 9.8 dyne
 - 9.8×10^4 N
 - 98×10^4 dyne
 - 980 dyne
- If a Substance is heated or cooled, the change in mass of that substance is
 - Positive
 - Negative
 - Zero
 - None of the above
- Kilowatt hour is the unit of
 - Resistivity
 - Conductivity
 - Electrical Energy
 - Electrical Power
- Gamma radiations are dangerous because
 - It affects eyes & bones
 - It affects tissues
 - It produces genetic disorder
 - It produces enormous amount of heat
- Which of the following has the Triatomic molecule?
 - Glucose
 - Helium
 - Carbon dioxide
 - Hydrogen
- is an important metal to form amalgam
 - Ag
 - Hg
 - Mg
 - Al
- Rectified Spirit is an aqueous solution which contains about ----- of Ethanol.
 - 95.5%
 - 75.5%
 - 55.5%
 - 45.5%
- Casparian Strips are present in the ----- of the root.
 - Cortex
 - Pith
 - Pericycle
 - Endodermis
- Pharyngeal Ganglion in leech is a part of
 - Excretory System
 - Nervous System
 - Reproductive System
 - Respiratory System
- Which organ acts as both Exocrine Gland as well as Endocrine Gland.
 - Pancreas
 - Kidney
 - Liver
 - Lungs
- The Plant which propagates with the help of its leaves is -----
 - Onion
 - Neem
 - Ginger
 - Bryophyllum
- Green House effect refers to
 - Cooling on earth
 - Trapping of UV rays
 - Cultivation of Plants
 - Warming of Earth

Part - II

Answer any seven questions. Q.No. 22 is compulsory. 7x2=14

- Classify the types of Force based on their Application.
- State Rayleigh's Law of scattering.
- Match the following:

Column - I**Column - II**

- | | |
|--------------------------|--------------|
| i) Electric current | a) Volt |
| ii) Potential Difference | b) Watt |
| iii) Electric Power | c) Ohm meter |
| iv) Specific Resistance | d) Ampere |

CP / 10 / Sci / 1

16. Give any two examples for Heterodiatomic Molecules.
17. What is rust? Give the equation for Formation of rust?
18. Why does the reaction rate of a reaction increase on raising the Temperature?
19. Name the three basic Tissue system in Flowering Plants.
20. Why is the Teeth of rabbit called Heterodont?
21. What are Allosomes?
22. A Charge of 10 Coulomb flows through a bulb is 5 second. What is the current through the bulb?

PART – III

Answer any seven questions .Q.No: 32 is compulsory.

7x4 = 28

23. Define Inertia. Give its Classification.
24. Differentiate the eye defects : Myopia and Hypermetropia.
25. State Soddy and Fajan's Displacement Law.
26. Give an example each
 - i) Gas in Liquid
 - ii) Solid in Liquid
 - iii) Solid in solid
 - iv) Gas in gas
27. Differentiate Soaps and Detergents.
28. Give an account on Vascular Bundle of Dicot stem.
29. What is Transpiration? Give the Importance of Transpiration. (any two)
30. Define Ethno Botany and Write its Importance.
31. What are the Consequences of Deforestation?
32. Calculate the number of moles in
 - i) 27g of Al
 - ii) 1.51×10^{23} molecules of NH_4Cl

PART-IV

Answer all the questions in detail.

3x7=21

33. a) State Newton's laws of motion.

(OR)

 b) i) What is meant by Electric Current?
 ii) Name and Define its Unit.
 iii) Which Instrument is used to measure the electric current? How should it be connected in a circuit?
34. a) Give the salient features of "Modern Atomic Theory".

(OR)

 b) How is Ethanol manufactured from Sugarcane?
35. a) Differentiate the following:
 - i) Monocot root and Dicot root
 - ii) Aerobic and Anaerobic Respiration.

(OR)

 b) With a neat labeled diagram explain the Structure of a Neuron.