

Class : 10

Register  
Number

## THIRD REVISION EXAMINATION, MARCH - 2023

Time Allowed : 3.00 Hours]

SCIENCE

[Max. Marks

PART - 1

12x

1. Choose the correct Answer.
- In which of the following sport the turning of effect of force used.
    - Swimming
    - Tennis
    - Cycling
    - Hockey
  - The eye defect 'Presbyopia' can be corrected by
    - Convex lens
    - Concave lens
    - Convex mirror
    - Bi focal lens
  - Kilowatt hour is the unit of
    - Resistivity
    - Conductivity
    - Electrical energy
    - Electrical power
  - Kamini Reactor is located at
    - Kalpakkam
    - Koodankulam
    - Mumbai
    - Rajasthan
  - Which of the following is a triatomic molecule?
    - Glucose
    - Helium
    - Carbon dioxide
    - Hydrogen
  - Which of the following is the Universal Solvent?
    - Acetone
    - Benzene
    - Water
    - Alcohol
  - Which of the following are used as anaesthetics?
    - Carboxylic acids
    - Ethers
    - Esters
    - Aldehydes
  - Kreb's Cycle takes place in
    - Chloroplast
    - Mitochondrial matrix
    - Stomata
    - Inner mitochondrial membrane
  - Vomiting Centre is located in
    - Medulla oblongata
    - Stomach
    - Cerebrum
    - Hypothalamus
  - Which one of the following is an IUCD?
    - Copper-T
    - Oral Pills
    - Diaphragm
    - Tubectomy
  - The region of the Chromosome where the spindle fibres get attached during cell division
    - Chromomere
    - Centrosome
    - Centromere
    - Chromonema
  - Cancer of the epithelial cells is called
    - Leukemia
    - Sarcoma
    - Carcinoma
    - Lipoma

## Part - II

Answer any seven questions. Q.No. 22 is compulsory.

- State Newton's Second Law.
- Fill in the blanks.
  - The value of Avogadro number -----
  - The temperature and Heat are ----- quantities.
- What is the audible range of frequency?
  - What is the minimum distance needed for an echo?
- What is rust? Give the equation for formation of rust?
- How is diastema formed in rabbit?
- What are synthetic auxins? Give example.
- Define the term Ethnobotany.

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20. Differentiate between Outbreeding and Inbreeding.
21. What are the agents of soil erosion?
22. The hydroxide ion concentration of a solution is  $1 \times 10^{-11}$  M. What is the  $P^H$  of the solution?

**PART - III**

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

7x4 =

23. List any four properties of light.
24. (i) What is meant by electric current?  
(ii) Name and define its unit.
25. Give the Salient features of "Modern atomic theory".
26. Write notes on (i) Saturated solution (ii) Unsaturated solution.
27. Differentiate Soaps and Detergents.
28. a) Draw and label the structure of oxysomes.  
b) What is respiratory quotient?
29. What is transpiration? Give the importance of transpiration.
30. Write the events involved in the sexual reproduction of a flowering plant.  
a) Discuss the first event and write the types.  
b) Mention the advantages and the disadvantages of that event.
31. Suggest measures to overcome the problems of an alcoholic.
32. Derive the ideal gas equation.

**PART-IV**

Answer all the questions in detail.

3x7

33. a) (i) Describe rocket propulsion. (5)  
(ii) What are the causes of myopia. (2)  
(OR)  
b) (i) What is a nuclear reactor? Explain its essential parts with their functions.  
(ii) Mention two cases in which there is no Doppler effect in sound?
34. a) (i) Explain smelting process. (5)  
(ii) Define Solubility.  
(OR)  
b) (i) How is ethanol manufactured from Sugarcane.  
(ii) Differentiate reversible and irreversible reactions.
35. a) (i) Write the physiological effects of gibberellins.  
(ii) Differentiate Aerobic and Anaerobic respiration.  
(OR)  
b) (i) How is the structure of DNA organised? What is biological significance of DNA?  
(ii) What is Scratch?