

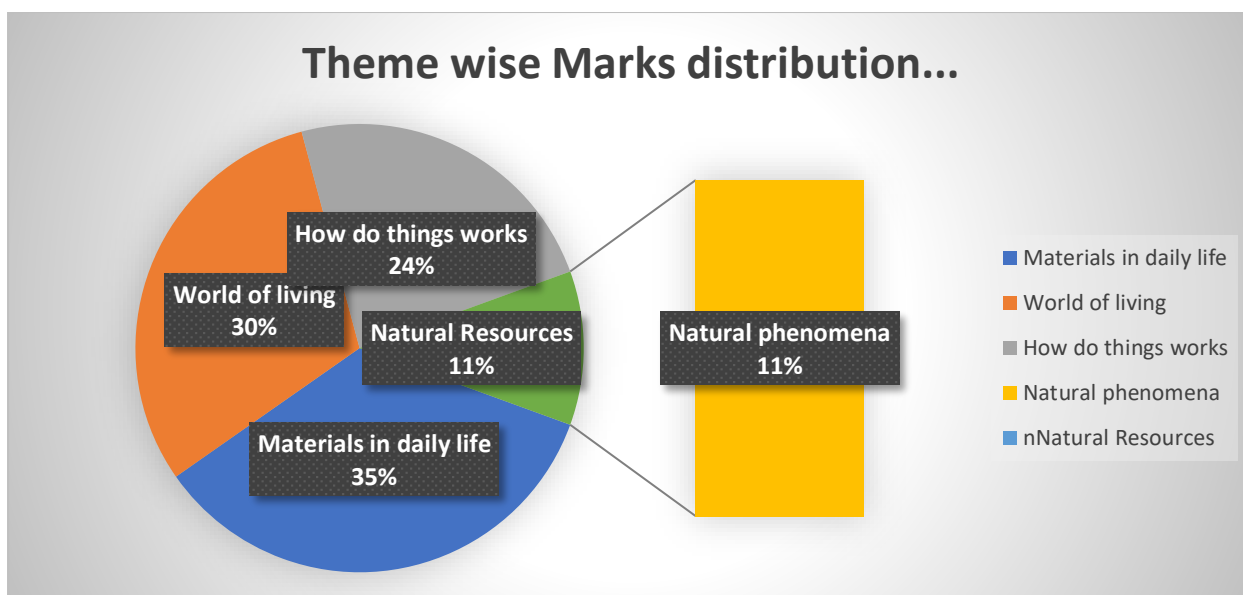


STUDY PLANNER 2021-2022

Subject :- General Science



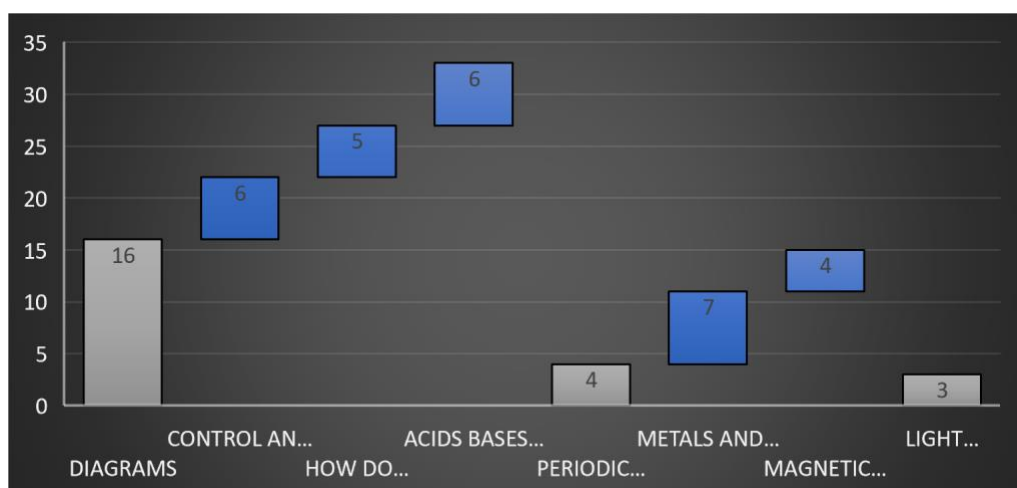
Study planner for SSLC Students.



On the basis of Model paper analysis...

A student can easily score a minimum of 39 marks

Just by following the steps given below.....



Above given are some of the chapters were in a learner can easily score marks.....

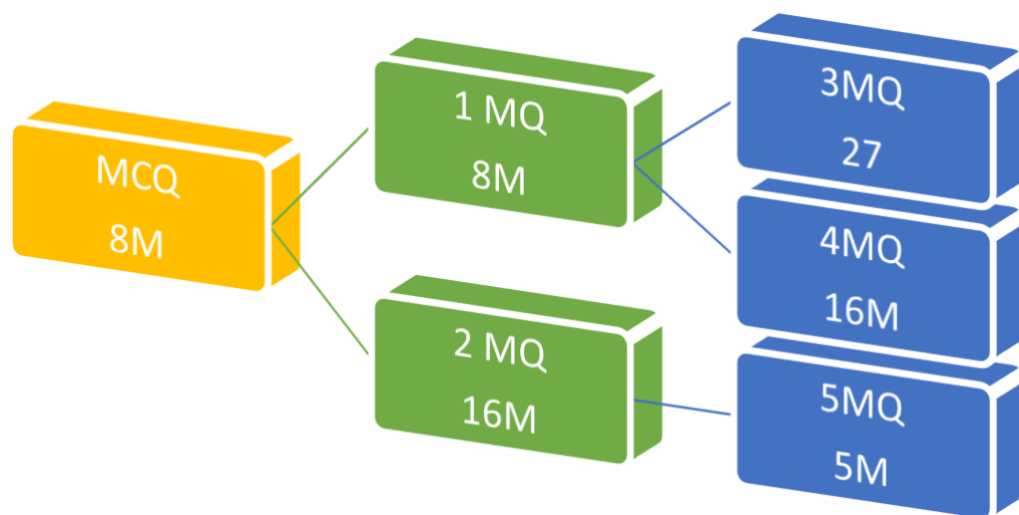
Chapter	Concepts	Marks
All the diagrams	Phy, Chem and Bio	16
Control and Co ordination	Plants and Animal Hormones Brain(Function) Neuron (Function) Spinal cord	5 to 6
How do organisms reproduce	Male and female reproductive part. Fertilization in plants. Methods to prevent pregnancy.	4 to 5
Acids bases and Salts	Properties of acids and bases pH in our daily life Indicators Manufacture of salts Chloro alkali process	5 to 6
Periodic classification of elements	All the 4 laws Trends in periodic table of the following terms with reason:- Valency, atomic size , metallic and non metallic character ..	3 to 4
Metals and Non Metals	Physical and chemical properties Reactivity series	5 to 7
Magnetic effects of electric current	Properties of magnetic lines Right hand thumb rule Flemming's left and right hand rule.. Faraday's experiment	4 to 5
Light	Laws of refraction and Reflection Refractive index Lens formula and mirror formula and power of lens	3 to 4

Chapters to be concentrated for 4 marks and 5 marks questions:-

- ❖ MAGNETIC EFFECTS OF ELECTRIC CURRENT
- ❖ METALS AND NON METALS
- ❖ CONTROL AND CO ORDINATION

- ❖ LIGHT
- ❖ HEREDITY AND EVOLUTION
- ❖ LIFE PROCESS

Question Paper Pattern 2021- 2022



Important diagrams

Reaction of zinc granules with dilute sulphuric acid and testing hydrogen gas by burning

Acid solution in water conducts electricity.

Action of steam on metal.

Testing conductivity of salt solution.

Human heart

Excretory system

Nephron

Neuron

Human brain

Simple electric circuit

Symbols of commonly used components in circuit diagrams.

Circuit of Ohm's law

Resistors in series and parallel

A pattern of concentric circles indicating the field lines of a magnetic field around a straight conducting wire.

Electric motor and generator.

Typical flower.

Germination of pollen on stigma.

Ray diagrams of convex and concave Mirrors and Lens.

Bio gas plant.

SOME IMPORTANT QUESTIONS FROM ALL THE CHAPTERS .

PHYSICS

- 1. Refractive index**
- 2. Laws of Refraction**
- 3. Uses of Lenses**
- 4. Lens Formula**
- 5. Joule's law of heating**
- 6. Ohm's law**
- 7. Ocean thermal energy**
- 9. Definition – Electric Current, Electric Power, Electric Potential.**
- 10. Difference between Voltmeter & Ammeter.**
- 11. Right hand thumb rule**
- 12. Flemings right & left hand rule**
- 13. Properties of Magnetic Field**
- 14. What is solenoid?**
- 15. What is electromagnetic induction?**

- 16. Characteristics of magnetic lines of force**
- 17. Factors on which resistance of conductor depends**

CHEMISTRY

- 1. Physical properties of metals and non metals**
- 2. Chemical properties of metals and non metals**
- 3. Reactions of acids with metals, metallic oxides and bases.**
- 4. What are products of Lead nitrate.**
- 5. pH in digestive system and tooth**
- 6. Definition: Water of Crystallisation.**
- 7. Properties of Ionic Compounds.**
- 8. What are Amphoteric oxides?**
- 9. Strong and weak acids.**
- 10. Electron dot structure: - Methane, ethane, ethene.**
- 11. Functional group & its structures.**
- 12. Modern periodic Law: Law of triad, Law of Octaves**
- 13. Why agitation is required to clean the clothes?**
- 14. Mendeleev periodic law.**
- 15. Drawing structures of Hydrocarbons.**
- 16. What is Isomerism?**
- 17. Reactivity series**
- 18. What are Homologous Series?**
- 19. Structure of benzene and dot structures of some compounds**
- 20. Natural indicators , pH determination of acids, base and salt**
- 21. What is Redox Reaction?**
- 22. Types of reactions with their examples**
- 23. Chloro alkali process and Preparation of Plaster of paris**

BIOLOGY

- 1. Double circulation of blood in humans.**
- 2. Role of nephron in excretion.**

- 3. Difference between Valves & Septum.**
- 4. Pathway of Reflex action.**
- 5. Plant hormones & its function.**
- 6. Animal hormones & its function.**
- 7. Why menstruation occur?**
- 8. Different methods of Contraception?**
- 9. Difference between Inherited & Acquired trait.**
- 10. Define Speciation.**
- 11. Difference between Analogous & Homologous Organ.**
- 12. What are Fossils? How can we determine the age of fossils?**
- 13. 10% Rule.**
- 14. Causes of Ozone Layer depletion.**
- 15. Advantage of Cloth bag over Plastic Bag.**
- 16. 5R's.**
- 17. Trophic levels , Food chain and food web**
- 18. Difference between Biodegradable & Non- Biodegradable Substances.**
- 19. Functions of:- Testis , Seminal vesicle, ureter, van deferens , fallopian tube, uterus, ovary, sperms and prostrate gland.**
- 20. Functions of Cerebrum, Cerebellum & Medulla Oblongata.**
- 21. Write a note on Lymph.**
- 22. Nutrition in Amoeba.**
- 23. Difference between**
 - (a) Geo tropism & Photo tropism**
 - (b) Arteries and veins**
- 24. Monohybrid & Dihybrid cross with ratios.**
- 25. The sex of a child is determine what they inherit from their father & not from the mother. Justify**
- 26. Glands and the hormones secreated by them.**

Important Formulas

Current , Potential difference , Resistance in series and parallel, electric power ,lens formula, mirror formula ohm's law. Joule's law, magnification of lens...

Smart work formula: how to prepare for target 40

- 1. Practicing drawings: 16 marks**
- 2. Electron dot structure: 2 marks**
- 3. Hydrocarbon mol. Formula, str. formula and naming the compounds by using functional groups: 4 marks**
- 4. Formulas for problem solving: 4 marks**
- 5. Equation balance : 2 mark**
- 6. Important difference type questions: 4 marks**
- 7. Reactivity series of metals: 2 marks**
- 8. Listing out uses of chemical compounds: 2 marks**
- 9. Important selected VSAs : 4 marks**
- 10. Diagram based questions: 4 marks**

Total: 40

Important Physical terms and SI units

- 1. Electricity : Kilo Watt Hour KWh***
- 2. Electric current : Ampere A***
- 3. Electric potential Difference: Volt V***
- 4. Electric Resistance : Ohm Ω***
- 5. Electric Charge : Coulomb C***
- 6. Electric Power : Watt W***
- 7. Power of a lens : Diopter D***

S.N	Days	Chapter/Diagrams
1	Day 01 to Day 03	Chemical reactions and equations
2	Day 04 to Day 07	Periodic Classification of Elements
3	Day 08 to Day 13	Control and Co – ordinations
4	Day 14 to Day 16	Sources of Energy
5	Day 17 to Day 21	Light
6	Day 22 to Day 24	Acids, Bases and Salts
7	Day 25 to Day 29	Carbon and its compounds
8	Day 30 to Day 33	Heredity and Evolution
9	Day 34 to Day 37	Metals and Non Metals

10	Day 38 to Day 41	Electricity
11	Day 42 to Day 44	Our Environment
12	Day 45 to Day 49	Life Process
13	Day 50 to Day 53	Management of Natural Resources
14	Day 54 to Day 59	Magnetic Effects of Electric Current
15	Day 60 to Day 65	How do organisms reproduce?
16	Day 66 to Day 70	Practice all the diagrams

NOTE:

The 70 days chapter wise content plan is tentative, according to level of your previous preparations get it modify days so you give more days for chapters which you require to prepare

Don't Panic, Start Preparing from Today – You can achieve your Goals

SCIENCE – 70 DAY PLAN