

EDUHUNT IIT AND NEET ACADEMY THE ONLY **ORGANIZATION** IN INDIA THAT PROVIDES **IIT & NEET FOUNDATION** PROGRAMME **THAT SUITS TO YOUR SCHOOL**

FULLY CUSTOMIZED MATERIAL IN MULTI COLOR WITH YOUR INSTITUTE NAME

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Don't lose ADMISSIONS FOR NOT HAVING IIT FOUNDATION PROGRAMME IN YOUR SCHOOL

We are Behind you Implement it

We can design a programme that suits to your school





WebPage: www.eduhunt.org,

Ph: 9063001942

Provides IIT Foundation, NEET foundation, IIT JEE , NEET Programmes for schools & colleges with 1:1 concept





HOW IT WORKS?

- * We interact with your faculty, know the standard of students and their abilities
- * We design & suggest a programme that suits your school standards accordingly
- * Will proceed with an agreement at your interest.
- * A demo copy of material is sent as per our discussion.
- * Your teachers may give their inputs, necessary modification will be done.
- * Material gets printed and sent to you.
- * Material which we provide to your school is fully personalized and will be exclusive to your school.

Concepts design As Per IIT Syllabus And State Board **CCE** Pattern

6-7 Classes **Basic Concepts** Core concepts

8-10 Classes





RESULT ANALYSIS



Our extraordinary Result Analysis System provides

- * Single subject mark list
- * Multiple subject mark list
- * Graphical performance report
- * Correct answer key
- * Question paper analysis report as per % attempt and the right solution
- * Brief graphical chart
- * 2 part test (paper I and II) combined reports

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- * Multiple test combined marks report
- * Error Analysis

Address: Eduhunt, 3rd Floor, Anuratna Complext Us Beside Tilak Showroom 4th Lane. Dwarakanagar Main Road, Ph: 7893458729. **9063001942** Visakhapatnam-530016 Andhra Prades, INDIA.



Web site: www.eduhunt.org E-Mail: eduhunt2015@gmil.com



If you dream to send your students into top most Engineering Colleges In India ...

Introduce IIT FOUNDATION PROGRAMME In Your School

We Stand With you to make it true

We provide Programme Material With your institute name

We plan, guide, evaluate. You just Implement Our Programme

We take all efforts To heighten your institute FAME



 **Our students Who opted our programme from class 8th class onwards, solved 30 % questions in the JEE MAINS, 50% EAMCET, 40% NEET
 ORIGINAL PAPERS - 2018. soon after their tenth class.
 CHAT S THE POWER
 OF OUR PROGRAMME

We are thankful to school managements and staff for their sincere efforts to make the Students to solve 30 questions soon after their 10th class. We have provided the analysis in next few pages.

** We have conducted exams with the original papers in some of our schools to the 10th class students, on the same dates.



OUR PROGRAMMES

FOR SCHOOLS :

(6-10 Classes) (All prices are per candidate per annum)

S.No	Programme Name	Duration	Fee
1.	SUMMER CAMP	40 DAYS	Rs. 500
2.	BASIC IIT PROGRAMME	3 Months	Rs. 400-500
3.	IIT - IC PROGRAMME	6 Months	Rs. 800-1000
4.	IIT - SPARK PROGRAMME	8 Months	Rs. 1300-1500
5.	IIT - IC SPARK PROGRAMME	8 Months	Rs. 2000-2200
6.	IIT - OLYMPIAD PROGRAMME	9 Months	Rs. 2300-2500
7.	NEET - IC PROGRAMME	6 Months	Rs. 800-1000

FOR COLLEGES & ACADEMIES :

(Jr., Sr., Inter)

- 1. IPE EAMCET INTEGRATED PROGRAMME Rs. 4,000/-
- 2. IPE IIT INTEGRATED PROGRAMME Rs. 5,000/-
- 3. IPE NEET INTEGRATED PROGRAMME Rs. 5,000/-

LONG TERM :

- 1. IIT-PROGRAMME Rs. 7,000/-
- 2. NEET PROGRAMME Rs. 7,000/







COMMON FEATURES FOR ALL PROGRAMMES

- * Maths, Physic ,Chemistry and Biology Material will be provided with your institute name.
- * Fortnight Exam papers or Weekend Exam papers and grand tests will be provided
- * Solutions to difficult problems
- * OMR Sheets
- * Result Analysis
- Interaction with faculty member to discuss about result analysis.
- * Doubts clarification to teachers through phone
- * Genuine report to school management about the programme how it is running in school.
- * Progress Report at the end of the programme
- * Medals and Momentos to the top students
- * Programme observation
- * Exam Results via SMS to parents.





EXCLUSIVE FEATURES

In addition to the common features folloing are given

1. SUMMER CAMP - ADDITIONAL FEATURES

- * Usefor for academies, and tuition centers who wants to run IIT Foundation programme during summer.
- * It can be covered in 45 days.
- Maths, Physic and Chemistry Material Separately with
 2-3 Basic topics per subject for classes 6-10
- * 5-6 Weekly Exam papers
- * 1 grand Test on whole syllabus.

2. BASIC FOUNDATION PROGRAMME- HIGHLIGHTS

(Suits for rural schools and beginners)

- * Useful for academies, and schools who wants to run IIT Foundation programme.
- * It can be covered in 4-6 months.
- * Weekly 3 Periods per subject is required.
- We Provide (with your institute name) 1 MODULE
- * 1- Maths, 1- Physic and 1- Chemistry Material Separately with 3-4 Basic topics per subject for classes 6-10.
- * 5-6 Fortnight Exam papers
- * 1 grand Test on whole syllabus

Fee: Rs. 400 for 6-7 classes, Rs. 500 for 8-10 classes, Per candidate per annum .

For best price contact us. Price can be lowered based on the no. Of participants.

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3. IIT - IC PROGRAMME - HIGHLIGHTS

(Suits for rural schools and beginners)

- Useful for academies, and schools who wants to run IIT Foundation programme in some higher level.
- * It can be covered in 6-8 months.
- * Weekly 4 Periods per subject is required.

We Provide (with your institute name) 2 MODULES

- * 2- Maths, 2- Physic and 2- Chemistry Materials Separately with 5-6 topics per subject for classes 6-10.
- * 10-11 Fortnight Exam papers
- * 2 semi grand Tests on part syllabus
- 1 grand Test on whole syllabus
 Fee: Rs. 800 for 6-7 classes, Rs. 1000 for 8-10 classes, Per candidate per annum.

4. IIT - SPARK PROGRAMME - HIGHLIGHTS

(Suits for Urban & Schools with previous experience)

- * Useful for academies, and schools who wants to run IIT Foundation programme in a higher level .
- * It can be covered in 8-9 months.
- * Weekly 4-5 Periods per subject is required.

We Provide (with your institute name) 3 MODULES

- * 3- Maths, 3- Physic and 3- Chemistry Materials Separately with 9-12 topics per subject for classes 6-9.
- * 15-17 Fortnight Exam papers
- * 3 Semi Grand Tests on part syllabus Mains Model
- 2 Grand Test on whole syllabus- Mains Model Fee: Rs. 1300 for 6-7 classes, Rs. 1500 for 8-9 classes, Per candidate per annum.

For best price contact us. Price can be lowered based on the no. Of participants.

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5. IIT - IC SPARK PROGRAMME - HIGHLIGHTS

(Suits to Schools with high level experience in running IIT)

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- * Useful for academies, and schools who wants to run
 IIT Foundation programme in a challenging level.
- * It can be covered in 8-10 months.
- * Weekly 4-5 Periods per subject is required.

We Provide (with your institute name) 3 MODULES

- * 3- Maths, 3- Physic and 3- Chemistry Material Separately with 9-12 topics per subject for classes 6-9.
- * High level Objective type questions for each subtopic
- * 15-16 Mains Model weekly tests, 5-8 Advanced Model Weekly tests.
- * 3 semi grand Tests on part syllabus Mains Model
- * 3 semi grand Tests on part syllabus Advanced Model
- * 2 grand Test on whole syllabus Mains Model
- * 2 grand Test on whole syllabus Advanced Model

Fee: Rs. 2000 for 6-7 classes, Rs. 2200 for 8-9 classes, Per candidate per annum .

For best price contact us. Price can be lowered based on the no. Of participants.





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6. IIT - IC SPARK PROGRAMME - HIGHLIGHTS

(Suits to Schools with high level experience in running IIT)

- Usefor for academies, and schools who wants to run IIT Foundation programme.
- * It can be covered in 9-10 months.
- * Weekly 4-5 Periods per subject is required.

We Provide (with your institute name) MODULE - 1,2,3

- * 3- Maths, 3- Physic and 3- Chemistry Material Separately with 9-12 topics per subject for classes 6-9.
- * High level Objective type questions for each subtopic
- * 15-16 Mains Model weekly tests, 5-8 Advanced Model Weekly tests.
- * RMO EXAMS SUPPORT
- * AS RAO, NTSE, JSO etc., exams support
- * 3 semi grand Tests on part syllabus Mains Model
- * 2 grand Test on whole syllabus Mains Model
- * 3 semi grand Tests on part syllabus Advanced Model
- * 2 grand Test on whole syllabus Advanced Model

Fee: Rs. 2300 for 6-7 classes, Rs. 2500 for 8-10 classes, Per candidate per annum .

For best price contact us. Price can be lowered based on the no. Of participants.

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PROCESS OF PREPARING PERSONNALIZED MATERIAL

We discuss with your faculty members

- We understand the standards of your students abilities and their academic background.
- * We suggest a programme, topics and level of concepts that suits to your school.
- * Let us make an agreement, demo copies will be printed.
- * Your teachers may give their inputs, necessary modifications will be made as per your school require ments.
- * Those changes will be made and books will be printed.
- The material which we provide to your school will be exclusive to your school. We provide fully personnalized materials and question papers to your school.
- Priority is gien to to CBSE, ICSE and State Board topics and they were kept in the 1st and 2nd modules
 Ender tenior were kept in the theid module
- * Extra topics were kept in the thrid module.
- Proposed topics and Index is provided in the next few pages. It helps you to understand the depth of the material. You are allowed to do necessary modifications in the subtopics.
 - We give utmost priority to teacher's satisfaction. Thats the reason why teachers promote our organization.







	TOU THE WELFARE OF BIUDENT		
	PROPOSED TOPICS FOR PHYSICS		
1	CLASS: 6	CLASS:7	
	MODULE - 1	MODULE -1	
	1. Measurements	1. measurements	
	2. Kinematics	2. kinematics	
	MODULE - 2	3. vectors	
	3. Types Of Forces And	MODULE -2	
	Dynamics	4. light	
	4. Work Power Energy	5. heat	
	5. Pressure	MODULE -3	
	MODULE - 3	6. work power energy	
	6. Circular Motion	7. centre of mass	
	7. Light	8. centre of gravity	
	8. Heat		

Module -1 1. Kinematics 2. Dynamics 3. Friction Module -2 4. Wave Motion 5. Centre Of Gravity 6. Centre Of Mass 7. Collissions Module -3 8. Vectors 9. Light 10. Static Electricity

CLASS:9

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MODULE -1 1. kinematics 2. nlm MODULE -2 3 pressure 4. work power energy 5. sound MODULE -3 6. circular motion 7. gravitations

8. static electricity

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MODULE -1

- 1. heat
- 2. light (reflection)
- 3. light (refraction at plane surface)
- 4. light (refraction at curved surface)
- 5. human eye

PROPOSED TOPICS FOR CHEMISTRY

CLASS:6

MODULE -1

- 1. Che Basics Atoms, Symbols, Formulas
- 2. Che Basics Atoms, Symbols, Formulas
- 3. Chemical Reactions
- 4. Matter In Our Surroudnings

MODULE -2

- 5. Mole Concept
- 6. Carbon And Its Compounds
- 7. Coal & Petroleum
- 8. Separation Of Techniques
- 9. Hydrogen & Oxygen

MODULE - 3

- 10. Acids & Bases
- 11. Combustion Flame
- 12. Synthetic Fibres
- 13. Pollution

CLASS:7

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MODULE -1

MODULE -2

6. electric current

7. electromagnetism

1. Che Basics Atoms, Symbols, Formulas

- 2. Atomic Structure1
- 3. Sulphur And Its Compounds
- 4. Rocks And Minerals

MODULE -2

- 1. Phosphorus Its Compounds F
- 2 Coal & Petroleum
- 3. Synthetic Fibres Plastics
- 4. Combustion Flame
- 5. Pollution

MODULE - 3

- 6. Mole Concept
- 7. Acids & Bases
- 8. Separation Of Techniques
- 9. Hydrogen & Oxygen

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MODULE - 1

- Atomic Structure
 Periodic Classification
 Metals & Non Metals
 MODULE 2
- 4. Chemical Bonding
- 5. Periodic Classification

MODULE - 3

- 6. Alkaline Earth Metals
- 7. States Of Mater Final

CLASS:9

MODULE - 1

- 1. States Of Mater
- 2. Periodic Classification

MODULE - 2

- 3. Stichiometry
- 4. Solutions
- MODULE 3
- 5. Chemical Kinetics
- 6. General Organic Chemistry

CLASS : 10

MODULE - 1

- 1. Chemical Reactions And Equations
- 2. Acids Bases And Salts
- 3. Structure Of Atom
- 4. Periodic Table

MODULE - 2

- 5. Chemical Bonding
- 6. Metallurgy
- 7. Carbon And Its Compounds









PROPOSED TOPICS FOR MATHS

CLASS:6	CLASS:7	
MODULE - 1	MODULE - 1	
1. Number System	1. Number System	
2. Sets	2. Set Theory	
3. Numbers	3. Numbers	
4. Rational Numbers	4. Real Numbers	
5. Exponents & Powers	5. Exponents & Powers	
6. Basic Algebra	6. Basic Algebra	
MODULE - 2	MODULE - 2	
7. Spl Product	7. Spl Product	
8. Polynomials & Factorisation	8. Polynomials & Factorisation	
9. Equations And Inequations	9. Linear Equations In Two Variables	
10. Geometry	10. Geometry	
11. Mensuration	11. Mensuration	
MODULE - 3	12. Triangles & Congurrent Triangles	
12 Triangles & Congurrent Triangles	MODULE - 3	
13. Circles	13. Circles	
14. Commertial Mathematics	14. Commertial Mathematics	
15. Speed Maths	15. Speed Maths	
16. Statistics	16. Statistics	
CLA	SS : 8	

MODULE - 1

- 1. Number System
- 2. Set Theory
- 3. Relations
- 4. Number Theory

MODULE - 2

- 5. Geometry
- 6. Mensuration
- 7. Progressions

MODULE - 3

8. Quadrilaterals9. Circles10. Mensuration 211. Surds









MODULE - 1

- 1. Trigonometric Ratios
- 2. Compounds Angles
- 3. Trigonometry_Multiples
- 4. Transformations_F13
- 5. Analytical Geometry
- 6. Three Dimensional Geometry

MODULE - 2

- 7. Sets
- 8. Relations
- 9. Functions
- 10. Matrices
- 11. Quadratic Equations

MODULE - 3

- 12. Geometry
- 13. Limits
- 14. Permutations & Combinations

CLASS : 10

MODULE - 1

- 1. Real Numbers
- 2. Sets
- 3. Polynomials
- 4. Pair Of Linear Equations In Two Variables
- 5. Quadratic Equations
- 6. Progressions
- 7. Coordinate Geometry

MODULE - 2

- 8. Similar Triangles
- 9. Tangents And Secants To A Circle
- 10. Mensuration
- 11. Trigonometry
- 12. Applications Of Trigonometry
- 13. Probability
- 14. Statistics







BIOLOGY TOPICS

CLASS:8

CLASS:9

CLASS : 10

- 1. Immunity & Disease
- 2. Plant Morphology & Family Of Angiosperm
- 3. Biodiversity And Conservation
- 4. Lower Plants
- 5. Growth, Repair & Ageing
- 6. Plant Breeding & Economic Botany
- 7. Organisms And Environment

- 1. Animal Tissue
- 2. Plant Diversity
- 3. Animal Diversity
- 4. Animal Diversity
- 5. Muscles
- 6. Cell Biology
- 7. Protoplasm & Biomolecules
- 8. Sensory System
- 9. Reproductive System
- 10. Embryology
- 11. Organisms And Environment
- 12. Species, Population, Community And Ecological Interactions
- 13. Eco System
- 14. Envir. Pollution And Envir. Issuesolder
- 15. Economic Zoology
- 16. Biotechnology & Bioenergy

- 1. Photosynthesis
- 2. Disestive System & Muscles
- 3. Enzyme
- 4. Respiratory System
- 5. Circulatory System
- 6. Plant Water Relation, Tran
- 7. Excretory System
- 8. Nervous System
- 9. Endocrine System
- 10. Growth & Growth Harmone
- 11. Integumentary & Skeletal System
- 12. Rerproduction In Flowering Plants
- 13. Genetic
- 14. Embryology
- 15. Organisms And Environment
- 16. Origin And Evolution Of Life And Mutation
- 17. Biotechnology & Bioenergy
- 18. Cell Biology & Cell Division









- * Index of each and every topic is given in next few pages.
- * By observing this this index you can get the feel of observing all our materials.
- * You can understand to what extent we took modules.
- * You may accept the contents or you may add or delete the subtopics based on your students strentgths and requirements.
- * Please go through the index carefully.
- * This is not final. Based on your Suggestions we finalize material that suits to your school.







TOPIC: 1. MEASUREMENTS-SUBTOPICS

1. Fundamental And Derived Physical Quantities

- 2. Fundamental Units
- 3. Multiples And Sub Multiples
- 4. Representation Of Units
- 5. Mearung Distances
- 6. Area
- 7. Volume
- 8. Measuring Volume
- 9. Measuring Mass
- 10. Measuring Time
- 11. Measuring Temperature
- 12. Measuring Density

TOPIC: 2. KINEMATICS-SUBTOPICS

- 1.Rest And Motion
- 2.Types Of Motion
- 3. Distance Vs Displacement
- 4.Speed
- 5.Velocity
- 6.Acceleration
- 7.Equations Of Motion
- 8.3rd Equation Of Motion
- 9. Motion Under Gravity
- **10.Vertical Projection**

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CLASS: 6 SUBJECT: PHYSICS MODULE : 2

TOPIC: 1. TYPES OF FORCES - SUB TOPICS

1.Simple Pendulum 2.Dynamics

3. Classification Of Forces 4. Newton's First Law Of Motion :

5.Linear Momentum 6.Newton Second Law Of Motion :

7.Impulsive Force : 8.Mass

9.Newton's Third Law : 10.Newton's Third Law Of Motion :

11.Law Of Conservation Of Momentum :

12.Friction

TOPIC: 2. WORK POWER ENERGY - SUBTOPICS

- 1.Work
- 2. Work done against gravity
- 3.Energy :
- 4. Relation between kinetic energy and momentum
- 5.Law of conservation of energy
- 6.Power:
- 7.Commercial Unit of Energy

TOPIC: 3. PRESSURE-SUBTOPICS

- 1.Pressure
- 2.Pressure in fluids :
- 3. Transmission of pressure in liquids
- 4. Atmospheric pressure :

TOPIC: 4. CIRCULAR MOTION-SUBTOPICS

- 1.Circular motion:
- 2. Terms Related to Circular motion
- 3. Relation between linear velocity (v)

and angular velocity (ω) :

4.Centripetal (Normal) Acceleration :

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CLASS: 6 SUBJECT: PHYSICS MODULE : 3

TOPIC: 1. LIGHT-SUBTOPICS

- 1. Light as an invisible energy:
- 2. Reflection of light:
- 3. Formula for the angle of deviation due to reflection:
- 4. Effect of Rotation of Mirror on Reflected Ray:
- 5. Lateral inversion:
- 6. Minimum Height of plane mirror required for a person to see full length
 - Project work
- 7. Mirrors:

TOPIC: 2. HEAT-SUBTOPICS

- 1. Hot and Cold :
- 2. Thermometer
- 3. Different scales of temperature : Conversion of temperature from one scale to another scale :
- 4. Thermal Expansion :
- 5. Coefficient of Linear expansion (α):
- 6. Factors influencing the quantity of heat: Heat - Experiment
- 7. Principle of Calorimetry : (or Law of Mixtures)









TOPIC: 1. MEASUREMENTS-SUBTOPICS

- 1. Measurements
- 2. Multiple And Sub Multiple Factors
- 3. Vernier Callipers :
- 5. Screw Gauge
- 6. Symbols For Fundamental Units
- 7. Analogy To Understand Principle Of Homogeneity
- 8. Applications Of Dimensional Formula :

TOPIC: 2. KINEMATICS-SUBTOPICS

- 1. Rest And Motion
- 2. Scalars And Vectors
- 3. Speed And Average Speed
- 4. Velocity & Average Velocity
- 5. Accelerartion
- 6. Equations Of Motion
- 7. Third Equation Of Motion
- 8. Motion Under Gravity
- 9. Vertical Projection

Topic: 3. Vectors-SUBTOPICS

- 1. Scalars
- 2. Types Of Vectors







CLASS: 7 SUBJECT : PHYSICS MODULE : 2

TOPIC: 1. LIGHT-SUBTOPICS

- 1. Light as an invisible energy:
- 2. Reflection of light:
- 3. Formula for the angle of deviation due to reflection:
- 4. Effect of Rotation of Mirror on Reflected Ray:
- 5. Lateral inversion:
- 6. Minimum Height of plane mirror required for a person to see full length

Project work

- 7. Mirrors:
- 8. Relation between focal length (f) and radius of curvature (R):

9. Mirror Formula – Relation Between Focal Length, Object Distance And Image Distance of Mirror:

TOPIC: 2. HEAT-SUBTOPICS

- 1. Hot and Cold :
- 2. Thermometer
- 3. Different scales of temperature :
- 4. Conversion of temperature from one scale to another scale :
- 5. Thermal Expansion :
- 6. Coefficient of Linear expansion (α):
- 7. Factors influencing the quantity of heat : Heat - Experiment
- 9. Principle of Calorimetry : (or Law of Mixtures)
- 10. Change of state:
- 11. Latent heat :

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CLASS: 7 SUBJECT : PHYSICS MODULE : 3

TOPIC: 1. WORK POWER ENERGY-SUBTOPICS

- 1. Work
- 2. Work Done Against Gravity :
- 3. Energy :
- 4. Relation Between Kinetic Energy And Momentum :
- 5. Law Of Conservation Of Energy :
- 6. Power :
- 7. Commercial Unit Of Energy :

TOPIC: 2.CENTRE OF MASS-SUBTOPICS

1. Centre Of Mass

TOPIC: 3.CENTRE OF GRAVITY-SUBTOPICS

- 1. Centre Of Gravity :
- 2. Centre Of Gravity Of Regular Bodies :
- 3. Centre Of Gravity Of Irregular Shaped Body :
- 4. Stability :
- 5. Equilibrium Of Bodies :





CLASS: 8 SUBJECT : PHYSICS MODULE : 1

TOPIC: 1. KINEMATICS-SUBTOPICS

- 1. Kinematics: Introduction
- 3. Velocity
- 5. Displacement Time Graphs
- 6. Velocity Time Graphs
- 7. Equations Of Motion
- 8. Motion Under Gravity (Upward Direction)
- 9. Equations Of Motion For A Body Thrown Vertically Upwards
- 10. Vertical Projection Of An Object From A Tower

Topic: 2. Dynamics-SUBTOPICS

- 1. Force 2. Classification Of Forces
- 3. Newton's 1st Law 4. Linear Momentum
- 5. Newton's Second Law 6. Impulsive Force
- 7. Mass Vs Weight 8. Newton's Third Law
- 9. Law Of Conservation Of Momentum

Topic: 3. Friction-SUBTOPICS

- 2. Normal Reaction (R) :
- 3. Pseudo Force:

1. Introduction

- 4. Motion Of A Body On An Inclined Plane:
- 5. Calculation Of Necessary Force In Different Conditions.
- 6. Acceleration Of A Block Against Friction

Sticking Of A Block With An Accelerated Cart:



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2. Speed

4. Acceleration





CLASS: 8 SUBJECT : PHYSICS

MODULE : 2

TOPIC: 1. WAVE MOTION-SUBTOPICS

- 1. Introduction Of Wave
- 2. Classification Of Waves Based On Necessity Of Medium:
- 3. Phase :
- 4. Wave Motion And Sound Experiment
 - Viva Voice
- 5. Sound:
- 6. The Speed Of Sound:
- 7. Reflection Of Sound:
- 8. Application Of Echo:
- 9. Musical Sound :

TOPIC: 2. CENTRE OF GRAVITY-SUBTOPICS

- 1. Centre Of Gravity :
- 2. Centre Of Gravity Of Regular Bodies :
- 3. Centre Of Gravity Of Irregular Shaped Body :
- 4. Stability :
- 5. Equilibrium Of Bodies :

TOPIC: 3. CENTRE OF MASS-SUBTOPICS

1. Centre Of Mass

TOPIC: 4. COLLISION-SUBTOPICS

- 1. Coefficient Of Restitution
- 2. Elastic Collision
- 3. Inelatic Collision :

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CLASS: 8 SUBJECT : PHYSICS **MODULE: 3**

TOPIC: 1. VECTORS-SUBTOPICS

- 1. Introduction
- 2. Addition Of Vectors
- 3. Polygon Law 4. Subtraction Of Vectors

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5. Resolution Of A Vector

TOPIC: 2. LIGHT-SUBTOPICS

- 1. Light As An Invisible Energy
- 2. Reflection Of Light
- 3. Formula For The Angle Of Deviation Due To Reflection:
- 4. Effect Of Rotation Of Mirror On Reflected Ray:
- 5. Lateral Inversion:
- 6. Minimum Height Of Plane Mirror Required For A Person To See Full Length, Project Work
- 7. Mirrors:
- 8. Relation Between Focal Length (F) And Radius Of Curvature (R):
- 9. Mirror Formula Relation Between Focal Length, Object Distance And Image Distance Of Mirror:

TOPIC: 3. STATIC ELECTRICITY-SUBTOPICS

- 1. Introduction 2. Potential Difference
- 3. Cell 4. Electric Current
- 5. Conductors And Insulators
- 6. Electric Circuits And Measuring Instruments
- 7. Ohm's Law
- 8. Series And Parallel Connections Of Resistors
- 9. Heating Effect Of Electric Current
- **10. Electric Power**
- 11. Flectric Bulb & Fuse





CLASS: 9 SUBJECT : PHYSICS

MODULE : 1

TOPIC: 1. KINEMATICS-SUBTOPICS

- 1. Kinematics: Introduction
- 2. Speed
- 3. Velocity
- 4. Acceleration
- 5. Displacement Time Graphs
- 6. Velocity Time Graphs
- 7. Equations Of Motion
- 8. Motion Under Gravity (Upward Direction)
- 9. Equations Of Motion For A Body Thrown Vertically Upwards
- 10. Vertical Projection Of An Object From A Tower
- 11. Motion In A Plane
- 12. Horizontal Projection From The Top Of A Tower

TOPIC: 2. NEWTON LAWS OF MOTION-SUBTOPICS

- 1. Newton's 1st Law & Inertia
- 2. Linear Momentum
- 3. Newton's 2nd Law Of Motion
- 4. Newton's Third Law
- 5. Apparent Weight Of A Body In A Lift.
- 6. Applications Of Newton's Laws

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CLASS: 9 SUBJECT : PHYSICS MODULE : 2

TOPIC: 1. PRESSURE-SUBTOPICS

1. Pressrue

2. Pressure In Fluids :

3. Transmission Of Pressure In Liquids

4. Atmospheric Pressure :

5. Buoyancy

6. Introduction To Archimedes' Principle :

7. Determination Of Relative Density Or

8. Specific Gravity Of A Solid:

9. Floatation :

10. Experiment

11. Try Your Self

TOPIC: 2. WORK POWER ENERGY-SUBTOPICS

1. Work

2. Work Done Against Gravity :

3. Energy :

4. Relation Between Kinetic Energy And Momentum :

5. Law Of Conservation Of Energy :

6. Power :

7. Commercial Unit Of Energy :

8. Circular Motion:

9. Terms Related To Circular Motion

10. Relation Between Linear Velocity (V) And Angular Velocity () :

11. Centripetal (Normal) Acceleration :

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CLASS: 9 SUBJECT : PHYSICS MODULE : 3

TOPIC: 1. CIRCULAR MOTION-SUBTOPICS

- 1. Introducton
- 2. Relation Between Angular Velocity And Linear Velocity
- 3. Equation Of Circular Kinematics
- 4. Acceleration Of A Particle In Circular Motion :
- 5. Recap Of Centripetal (Normal) Acceleration :
- 6. Circular Turnings And Banking Of Roads :

Topic: 2. Gravitation-SUBTOPICS

- 1. Introduction
- 2. Newton's Universal Law Of Gravitation
- 3. Characteristics Of Gravitational Force :-
- 4. Unit Of Gravitational Constant
- 5. Importance Of The Universal Law Of Gravitation
- 6. Gravitational Force Between Light Objects And Heavy Objects
- 7. Kepler's Laws Of Planetary Motion
- 8. Newton's Third Law Of Motion And Gravitation
- 9. Gravitation And Gravity
- 10. Mass 11. Weight
- 12. Practical Units Of Weight

Topic: 3. Static Electricity-SUBTOPICS

- 1. Introduction2. Potential Difference
- 3. Cell 4. Electric Current
- 5. Conductors And Insulators
- 6. Electric Circuits And Measuring Instruments
- 7. Ohm's Law
- 8. Series And Parallel Connections Of Resistors
- 9. Heating Effect Of Electric Current
- 10. Electric Power
- 11. Electric Bulb & Fuse




CLASS: 10 SUBJECT : PHYSICS MODULE : 1

TOPIC: 1. HEAT-SUBTOPICS

1. Hot And Cold :

2. Thermometer

3. Some Common Types Of Thermometers

4. Thermal Expansion (Solids)

5. Application Of Thermal Expansion

6. Expansion Of Liquids

7. Factors Influencing The Quantity Of Heat

8. Review Of Concepts

9. Principle Of Calorimetry : (Or Law Of Mixtures)

10. Transmission Of Heat : Conduction

11. Convection

12. Radiation Of Heat

TOPIC: 1. LIGHT-SUBTOPICS

1. Introduction

2. Reflection Of Light

3. Rotation Of Plane Mirror:

4. Images Formed By Two Mirrors

5. Reflection At A Spherical Surface

6. Refraction And Its Laws

7. Snell's Law In General Form

8. Real And Apparent Depth

9. Total Internal Reflection

10. Prism:

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CLASS: 10 SUBJECT : PHYSICS MODULE : 2

TOPIC: 1. CURRENT ELERCTRICITY - SUBTOPICS

- 1. Introduction ; Drift Velocity; Strength Of Electric Current: Constitutions Of Current In Different Cases.
- 2. Current Density : Relation Between Current And Drift Velocity ; Mobility () :
- 3. Ohm's Law ; Validity (Or) Limitations Of Ohm's Law : Resistance ; Conductance ; Conductivity; Thermistor ; Superconductors ; Colour Code Of Resistors Parallel Combination
- 4. Electric Cell ; Emf Of A Cell ; Internal Resistance Of A Cell: Terminal Voltage ; Different Concepts With A Cell ; Back Emf Of A Cell ; Grouping Of Cells ; Cells In Series : Wrongly Connected Cells In Series ; Mixed Grouping Of Cells
- 5. Kirchhoff's Laws ; Wheatstone Bridge; Uses Of Wheatstone Bridge :
- 6. Meter Bridge; Drawbacks With Metre Bridge:

TOPIC: 2. ELECTROMAGNETISM-SUBTOPICS

- Introduction; Oersted's Lexperiment; Ampere's Swimming Rule; Ampere's Right Hand Thumb Rule ; Magnetic Field Due To A Straight Conductor; Biot-Savart's Law; Magnetic Field Due To A Straight Current ;Carrying Wire; Ampere's Circuital Law
- 2. Intensity Of Magnetic Induction (B) Neara Long Straight Conductor
- 3. Magnetic Field At The Centre Of A ; Circular Coil Carrying Current





- 4. Tangent Galvanometer
- 5. Force On A Moving Charge Inmagnetic Field Fleming's Left Hand Rule
- 6. Force On A Current Carrying Wire In
 - A Magnetic Field
- 7.Force Between Two Straight
 - Parallel Conductors Carrying Currents
- 8. Torque On Current Loop In A Uniform
 - **Magnetic Field**
- 9. Moving Coil Galvanometer Merits Of Moving Coil Galvanometer



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2	CLASS: 6
	SUBJECT : CHEMISTRY
	MODULE : 1
	TOPIC: 1. CHEMISTRY BASICS-SUBTOPICS
	1. Atoms And Molecules
	2.Atoms 3.Symbol Of Elements :
	4.Molecules : 5.lons :
	TOPIC: 2 .PHYSICAL & CHEMICAL CHANGES-SUBTOPICS
	1.Physical Change Definition:
	2.Definition : 3.Endothermic Change
	TOPIC: 3 .CHEMICAL REACTIONS-SUBTOPICS
	1.Chemical Reactions 2.Oxidation
	TOPIC: 4 .MATTER IN OUR SURROUNDINGS-SUBTOPICS
	1. Introduction ; 2. States Of Matter
	3. Study Of Compressibility Of Gases And Liquids :-
	4. Comparision Of Characteristic Properties Of Solids, Liquids
	And Gases :-
	5.Effect Of Change Of Temperature :-
	6.Latent Heat (Hidden Heat) :-
	7.Important Definitions
	8.Effect Of Change Of Pressure:-
	9.Evaporation
	10.Plasma
	11.Important Points

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CLASS : 6 SUBJECT : CHEMISTRY

MODULE : 2

TOPIC: 1. MOLE CONCEPT-SUBTOPICS

1.Atom:2.Atomic Mass Unit (A.M.U.):

3.Atomic Weight : 4.Molecule:

5.Molecular Weight: 6.Gram Atomic Weight (Gaw):

7.Gram Molecular Weight (Gmw):

8.Mole:

9.Important Relations Related To Mole:

TOPIC: 2. CARBON AND ITS COMPOUND-SUBTOPICS

1.Introduction 2.Covalent Bond :

3. Classification Of Covalent Bond :

4.Formation Of Single Covalent Compounds :

5.Non Polar And Polar Covalent Compounds :

6.Organic Compounds :

7.Diamond 8.Graphite :

9. Versatile Nature Of Carbon

10.Hydrocarbon 11.Homologous Series

12.Chemical Properties Of Carbon Compound

13.Formation Of Coal And Petroleum

14.Oxidation 15.Addition Reaction

16.Some Important Carbon Compounds

17.Physical Properties

18.Chemical Properties Of Ethanol

19.Ethanoic Acid (Acetic Acid) Ch3cooh





20.Chemical Properties 21.Uses Of Ethanoic Acid 22.Soap And Detergents

23.Differences Between Soaps And Synthetic Detergents :

TOPIC: 3. COAL & PETROLEUM-SUBTOPICS

1.Introduction 2.Carbonisation :

3.Uses Of Coal 4.Petroleum

5.Use Of Petroleum :

6.Petroleum Gas : 7.Natural Gas :

8.Alternative Energy Sources

9.Inexhaustiblenatural Resources

TOPIC: 4. SEPARATION OF TECHNIQUES-SUBTOPICS

1.Separation Of Techniques

2. Techniques For The Separation Of Solid-Solid

3. Fractional Crystallisation:

4.Separation Of Solid-Liquid Mixtures

5.Separation By Filtration

TOPIC: 5. HYDROGEN & OXYZEN-SUBTOPICS

Hydrogen
Laboratory Method Of Preparing Hydrogen:
Chemical Properties Of Hydrogen:
Oxygen
Preparation Of Oxygen From Hydrogen
Physical Properties Of Oxygen:
Oxidation Of Metals

8.Uses Of Oxygen:

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CLASS : 6 SUBJECT : CHEMISTRY

MODULE : 3

TOPIC: 1. ACIDS & BASES-SUBTOPICS

1. Acids:

2.Classification Of Acids:

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- 3. Classification Of Acids (Continued)
- 4.On The Basis Of Ionisation Of Acid:
- 5. On The Basis Of Concentration Of Acid:
- 6.On The Basis Of Volatility: 7.Bases:
- 8. General Methods For The Preparation Of Bases Or Alkalis
- 9. Modern Concept Of Acids And Bases
- 10. Arrhenius Theory:

TOPIC: 2. COMBUSTION & FLAME-SUBTOPICS

- 1.Introduction 2.Types Of Combustion :
- 3. Classifications Of Fuels : Quick Revision

TOPIC: 3. SYNTHETIC FIBRES & PLASTICS-SUBTOPICS

1.Introduction	2.Polymerisation
4.Rayon	5.Nylon
6.Polyester	7.Acrylic
8.Spandex	9.Plastics

Topic: 4. Pollution-SUBTOPICS

1.Pollution	2.Air Pollution
3.The Tajmahal	4. Green House Efect
5.Ozone Depletion	6.Water Pollution
7.Pollution Of Ganga	8.Conservation Of Water
9.Potable Water	10.Soil Pollution





FDU HUNT **CLASS: 7** SUBJECT : CHEMISTRY **MODULE: 1 TOPIC: 1. CHEMISTRY BASICS-SUBTOPICS** 1.Atoms And Molecules 2.Atoms 3.Symbol Of Elements : 4.Molecules : 5.lons : **TOPIC: 2. ATOMIC STRUCTURF-SUBTOPICS** 1.Dalton's Atomic Theory : 2.Cathode Rays : (Discovery Of E-) : 3.Measurement Of F/M For Electron : 4. Anode Rays Or Canal Rays : 5. Characteristics Of Proton : 6.Discovery Of Neutron : 7. Atomic Number And Mass Number : 8. Atomic Number (Z) : 9. Mass Number (A) 10.lsotopes 11.Carbon Isotopes 12. Isobars : 13. Isotones **TOPIC: 3.** SULPHUR AND ITS COMPOUNDS-SUBTOPICS 1. Introduction: 2.Transition Temperature: **3. Chemical Properties Of Sulphur 4.Sulphur Dioxide 5. Sulphuric Acid Physical Properties** 6.Chemical Properties Of Sulphuric Acid **TOPIC: 4. ROCKS AND MINERALS-SUBTOPICS** 1.Rocks & Minerals 2.Uses Of Common Salt : 3.Uses Of Plaster Of Paris :







CLASS : 7 SUBJECT : CHEMISTRY MODULE : 2

TOPIC: 1. PHOSPHORUS & ITS COMPOUNDS-SUBTOPICS

1.Phosphorus

2. Allotropic Forms Of Phosphorus

3. Properties Of Red Phosphorus

4. Other Allotropic Forms Of Phosphorus

5. Chemical Properties Of Phosphine

6.Halides Of Phosphorus

7.Oxides Of Phosphorus

8.Oxyacids Of Phosphorus

9. Orthophosphoric Acid, H3po4

10. Orthophosphoric Acid (Continued)

11. Hypophosphoric Acid, H2po3 Or H4p2o6

TOPIC: 2. COAL & PETROLEUM-SUBTOPICS

1.Introduction2.Carbonisation :3.Uses Of Coal4.Petroleum5.Use Of Petroleum :6.Petroleum Gas :7.Natural Gas :8.Alternative Energy Sources9.Inexhaustiblenatural Resources

TOPIC: 3. SYNTHETIC FIBRES & PLASTICS-SUBTOPICS

1.Introduction
4.Rayon
6.Polyester
8.Spandex

2.Polymerisation 5.Nylon 7.Acrylic 9.Plastics





TOPIC: 4. COMBUSTION & FLAME-SUBTOPICS

1. Introduction

2.Types Of Combustion :

3.Classifications Of Fuels

TOPIC: 5. POLLUTION-SUBTOPICS

- 1.Pollution
- 3.The Tajmahal

2.Air Pollution

4. Green House Efect

6.Water Pollution

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5.Ozone Depletion

7.Pollution Of Ganga

8. Conservation Of Water





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CLASS : 7 SUBJECT : CHEMISTRY

MODULE : 3

TOPIC: 1. MOLE CONCEPT-SUBTOPICS

- 1. Atom: 2. Atomic Mass Unit (A. M. U.):
- 3. Atomic Weight : 4. Molecule:
- 5. Molecular Weight:
- 6. Gram Atomic Weight (Gaw):
- 7. Gram Molecular Weight (Gmw): 8. Mole:
- 9. Important Relations Related To Mole:

TOPIC: 2. ACIDS & BASES-SUBTOPICS

- 1. Acids:
- 2. Classification Of Acids:
- 3. Classification Of Acids (Continued)
- 4. On The Basis Of Ionisation Of Acid:
- 5. On The Basis Of Concentration Of Acid:
- 6. On The Basis Of Volatility:
- 7. Bases:
- 8. General Methods For The Preparation Of Bases Or Alkalis
- 9. Modern Concept Of Acids And Bases
- 10. Arrhenius Theory:
- 11. Bronsted Lowry Theory Of Acids And Bases
- 12. Levelling Effect
- 13. Lewis Theory Of Acids And Bases







TOPIC: 3. SEPARATION OF TECHNIQUES-SUBTOPICS

- 1. Separation Of Techniques
- 2. Techniques For The Separation Of Solid-Solid Mixtures
- 3. Fractional Crystallisation:
- 4. Separation Of Solid-Liquid Mixtures
- 5. Separation By Filtration

TOPIC: 4. HYDROGEN & OXYGEN-SUBTOPICS

- 1. Hydrogen
- 2. Laboratory Method Of Preparing Hydrogen:
- 3. Chemical Properties Of Hydrogen:
- 4. Oxygen
- 5. Preparation Of Oxygen From Hydrogen Peroxide:
- 6. Physical Properties Of Oxygen:
- 7. Oxidation Of Metals
- 8. Uses Of Oxygen:





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CLASS : 8				
SUBJECT : CHEMISTRY				
MODULE : 1				
TOPIC: 1. ATOMIC STRUCTURE-SUBTOPICS				
1. Dalton's Atomic Theory :				
2. Cathode Rays : (Discovery Of E–) :				
3. Measurement Of E/M For Electron :				
4. Anode Rays Or Canal Rays :				
5. Characteristics Of Proton :				
6. Discovery Of Neutron :				
7. Atomic Number And Mass Number :				
8. Atomic Number (Z) : 9. Mass Number (A)				
10. Isotopes11. Carbon Isotopes				
12. Isobars : 13. Isotones				
14. Nature Of Light: 15. Wave Theory:				
16. Wave Length:				
17. Electromagnetic Spectrum:				
18. Inomson Model Of Atom :				
1 Deriodio Toble Introduction :				
2. Deboroiner Triads Pule :				
2. Doberellier Triads Rule . 2. Short Coming Of Deboroiner's Triads Pule :				
A Mendeleev's Periodic Table :				
5 Modern Periodic Table - Long Form Of Periodic Table: 6				
Merits Of Long Form Of Periodic Table				
7. Description Of Groups				
8. Classification Of Elements Into Blocks				
TOPIC: 3. METAL &NON METALS				
1. Metals & Non Metals				

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CLASS : 8 SUBJECT : CHEMISTRY MODULE : 2

TOPIC : 1: CHEMICAL BONDING-SUBTOPICS

- 1. Reasons For Nonreactivity Of Noble Gases
- 2.1 Concept 2
- 3.1 Ionic Bond And Its Formation
- 3.2 Features Of Acceptor Atoms
- 4.1 Properties Of Ionic Compounds
- 5.1 Covalent Bond And Its Formation
- 6.1 Types Of Covalent Bonds And Their Formation
- 7.1 Properties Of Covalent Compounds
- 8.1 Polar Covalent Bond And Its Formation

TOPIC : 2 : PERIODIC CLASSIFICATION-SUBTOPICS

- 1 Periodic Table Introduction :
- 1.1 Dobereiner Triads Rule :
- 1.2 Short Coming Of Dobereiner's Triads Rule :
- 1.3 Mendeleev's Periodic Table :
- 2.1 Modern Periodic Table Long Form Of Periodic Table:
- 2.2 Merits Of Long Form Of Periodic Table:
- 2.3 Description Of Groups
- 3.1 Classification Of Elements Into Blocks
- 4. Periodic Properties
- 5. Atomic Size
- 6. Ionisation Energy (Ie)
- 7. Electron Effinity
- 8. Electronegativity
- 9. Electro Positivity, Metallic/Non-Metallic Character

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CLASS : 8 SUBJECT : CHEMISTRY

MODULE: 3

TOPIC : 1. ALKALINE EARTH METALS-SUBTOPICS

- 1. Introduction
- 2. Physical Properties
- 3. Chemical Properties Of Alkaline Earth Metals
- 4. Chemical Properties Of Alkaline Earth Metals
- 5. Differences Between Alkaline Earth Metals And Alkali

Metals Centre

- 6. Anomalous Behaviour Of Beryllium
- 7. Magnesium (Mg)

8. Physical Properties

9. Calcium Sulphate

TOPIC : 2. STATES OF MATTER-SUBTOPICS

- 1. State Of Matter Introduction
- 2. Dipole-Induced Dipole Forces
- 3. Boyle's Law
- 4. Charles' Law
- 5. Avogadro's Law
- 6. Dalton's Law Of Partial Pressures :
- 7. Kinetic Theory Of Gases
- 8. Molecular Speeds Or Velocities







CLASS : 9 CHEMISTRY

MODULE - 1

Topic : 1. STATES OF MATTER-SUBTOPICS

- 1. State Of Matter Introduction
- 2. Dipole-Induced Dipole Forces
- 3. Boyle's Law
- 4. Charles' Law
- 5. Avogadro's Law
- 6. Dalton's Law Of Partial Pressures :
- 7. Kinetic Theory Of Gases
- 8. Molecular Speeds Or Velocities

Topic : 2. PERIODIC CLASSIFICATION-SUBTOPICS

- 1 Periodic Table Introduction :
- 2. Dobereiner Triads Rule :
- 3. Short Coming Of Dobereiner's Triads Rule :
- 4. Mendeleev's Periodic Table :
- 5. Modern Periodic Table -
- 6. Long Form Of Periodic Table:
- 7. Merits Of Long Form Of Periodic Table:
- 8. Description Of Groups
- 9. Classification Of Elements Into Blocks
- **10. Periodic Properties**
- 11. Atomic Size
- 12. Ionisation Energy (Ie)
- 13. Electron Effinity 8. Electronegativity
- 14. Electro Positivity, Metallic/Non-Metallic Character
- 15. Reducing, Oxidising Characters And Nature Of Oxides







CLASS : 9 CHEMISTRY MODULE - 2

TOPIC : 1. STIOCHIOMETRY-SUBTOPICS

- 1. Avogadro's Law:
- 2. Molecule:
- 3. Mole:
- 4. Gay Lussac's Law Of Combining Volumes:
- 5. Stoichiometry
- 6. Reactions In Succession
- 7. The Gram Equivalent
- 8. The Gram Equivalent Weight
- 9. Synopsis
- 10. Methods Of Finding EquivalentWeight (Continued)
- 11. Other Methods Of Finding Equivalent Weight
- 11. Chemical Formulae

TOPIC : 1. SOLUTIONS-SUBTOPICS

- 1. Solution, Solute & Solvent :
- 2. Solubility Of Solutions
- 3. Effect Of Temperature
- 4. Concentration Of A Solution
- 5. Methods Of Concentration
- 6. Normality
- 7. Molality
- 8. Vapourisation
- 9. Ideal Solutions

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9TH CLASS CHEMISTRY MODULE - 3

TOPIC : 1: CHEMICAL KINETICS-SUBTOPICS

- 1. Introduction:
- 2. Rate Of Chemical Reaction :
- 3. Factors Affecting Rate Of Reaction
- 4. Rate Expression And Rate Constant
- 5. Molecularity And Order Of Reaction
- 6. Integrated Rate Equations
- 7. Temperature Dependence Of The Rate Of Reaction
- 8. Transition State Theory (Tst)
- 9. Collision Theory Of Chemical Reaction
- 10. Effect Of Catalyst
- 11. Radio Activity
- 11. Key Concept

TOPIC : 2: ORGANIC CHEMISTRY-SUBTOPICS

- 1.Introduction
- 2. Techniques Of Purification
- 3. Qualitative And Quantitative Analysis
- 4.Classification
- 5.Nomenclature
- 6.Compounds Containing Functional Groups







10TH CLASS CHEMISTRY

MODULE - 1

TOPIC : 1: ATOMIC STRUCTURE-SUBTOPICS

1.1 Dalton's Atomic Theory :

1.2 Cathode Rays : (Discovery Of E⁻) :

1.3 Measurement Of E/M For Electron :

1.4 Anode Rays Or Canal Rays :

1.5 Characteristics Of Proton :

1.6 Discovery Of Neutron :

2. Atomic Number And Mass Number :

2.1 Atomic Number (Z) :

2.2 Mass Number (A)

2.3 Isotopes

2.4 Carbon Isotopes

2.5 Isobars :

2.6 Isotones

3.1 Nature Of Light:

3.2 Wave Theory:

3.3 Wave Length:

3.4 Electromagnetic Spectrum:

4.1 Thomson Model Of Atom :

4.2 Rutherford's Model:

4.3 Atomic Model:

5.1 Bohr Model Of An Atom :

5.2 Merits Of Bohr's Theory

5.3 Limitations Of Bohr's Theory

6.1 Atomic Spectrum

7.1 Planck's Quantum Theory

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8.1 Photoelectric Effect 8.2 De-Broglie Relations : 9.1 Heisenberg's Uncertainty Principle **10.1 Quantum Numbers 11.1 Rules For Electronic Onfiguration** Aufbau Principle 12.1 Shapes Of Atomic Orbitals Topic: 2: CHEMICAL BONDING-SUBTOPICS 1.1 Reasons For Nonreactivity Of Noble Gases 2.1 Concept - 2 3.1 Ionic Bond And Its Formation 3.2 Features Of Acceptor Atoms 4.1 Properties Of Ionic Compounds 5.1 Covalent Bond And Its Formation 6.1 Types Of Covalent Bonds And Their Formation 7.1 Properties Of Covalent Compounds 8.1 Polar Covalent Bond And Its Formation 9.1 Coordinate Bond 10.1 Valence Bond Theory 11.1 Hydrogen Bonding 11.2 Metallic Bond: 12.1 Hybridization 12.2 Rules Of Hybridisaiton: 13.1 Valence Shell Electron Pair Repulsion (Vsepr) Theory 14.1 Molecular Orbital Theory



10TH CLASS CHEMISTRY MODULE - 3

TOPIC : 1: CHEMICAL KINETICS-SUBTOPICS

- 1. Introduction:
- 2. Rate Of Chemical Reaction :
- 3. Factors Affecting Rate Of Reaction
- 4. Rate Expression And Rate Constant
- 5. Molecularity And Order Of Reaction
- 6. Integrated Rate Equations
- 7. Temperature Dependence Of The Rate Of Reaction
- 8. Transition State Theory (Tst)
- 9. Collision Theory Of Chemical Reaction
- 10. Effect Of Catalyst
- 11. Radio Activity
- 11. Key Concept

TOPIC : 2: ORGANIC CHEMISTRY-SUBTOPICS

- 1.Introduction
- 2.Techniques Of Purification
- 3. Qualitative And Quantitative Analysis
- 4.Classification
- 5.Nomenclature
- 6.Compounds Containing Functional Groups









CLASS: 6 SUBJECT : MATHS **MODULE: 1 TOPIC:1. NUMBER SYSTEM-SUBTOPICS 1.Number System TOPIC: 2. SET THEORY-SUBTOPICS** 1. Introduction 2. Well Defined Collection Of Objects **3.**Representation Of Sets **4.Geometric Figures As Sets Of Points** 5.Equal Sets And Its Example: 6.Cardinal Number Of A Set And Its Examples 7.Equivalent Sets 8. Types Of Sets Based On Cardinal Numbers 9. Subset And Super Set Of A Set 10. Operations On Sets 11. Union Of Sets 12.Intersection Of Sets **13.Disjoint Sets** 14. Difference Of Sets 15.Universal Set 16.Complement Of A Set **17.Properties Of Cardinal Numbers** 18. Venn Diagrams **TOPIC: 2. NUMBERS-SUBTOPICS** 1. Numbers 2. Roman Numbers 3. Convertion Of One System To Other System 4. Properties Of Whole Numbers 5. Multiples & Factors 6. Divisibility Rules 7. Determination Of Prime Number 8. Greatest Common Divisor : 9. Least Common Multiple : (L.C.M) 10. Gcd & Lcm 11. Integers 12. Pythagorus Triplets **13. Squres And Square Roots**

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TOPIC: 3: RATIONAL NUMBERS-SUBTOPICS 1. Definition & Types Of Fractions 2. Definition Of Rattional Numbers 3. Comparision Of Rational Numbers 4. Properties Of Rational Numbers **5.Fractions & Equivalent Fractions** 6.Irreducible Fraction & Types Of Fractionscomparision Of **Fractions Operations On Fractions** 7. Numerical Expression & Rule Of Bodmas 8. Decimal Fractions: 9. Conversion Of A Decimal Into Vulgar Fraction: **10. Operations On Decimal Fractions: 11. Comparison Of Fractions: TOPIC: 4: EXPONENTS & POWER TOPIC: 5: BASIC ALGEBRA-SUBTOPICS** 2. Algebraic Expression 1.Basic Algebra 3.. Various Types Of Expressions **4.Numericl Factor And Literal Factor 5.Light Terms And Unlight Terms** 6.Polynomial 7. General Form Polynomial 8.Degree Of Polynomial 9. Addition Of Algebraic Expression: **10.Subtraction Of Algebraic Expression 11.Multiplication:** 12. Monomial By Monomial: 13. Monomial By Binomial: 14.Binomial By Binomial 15.Use Of Brackets **16.Division Of Polynomials** 17.Monomial By Monomial **18.Binomial By Monomial** 19.Binomial By Binomial





EDU HUNT CLASS: 6 **SUBJECT : MATHS MODULE: 2 TOPIC: 1: SPL PRODUCT-SUBTOPICS 1. Special Products** 2.Factorization **TOPIC: 2: POLYNOMIALS-SUBTOPICS** 1. Division Of A Polynomial By A Monomial 2.Remainder Theorem **3 Factor Theorem** 4. Observe The Steps Involved While Finding The Remainder By Synthetic Division. **TOPIC: 2: POLYNOMIALS-SUBTOPICS 1.Equations & Inequations** 2. Guess Method **TOPIC: 3:** FOUATIONS & INFOUATIONS-SUBTOPICS 1. Equations & Inequation 2. Guess Method **TOPIC: 4: GEOMETRY-SUBTOPICS** 1. Basic Geometrical Concepts Enrichment Worksheet : 2. Line Segments **3. Rays And Angles** 4. Parallel Lines 5. Triangles 6. Congruent Triangles **TOPIC: 5: MENSURATION-SUBTOPICS** 1.Mensuraton 2. Area Of Rectangle And Square Paths. **3.Circles** 4.Ring 5.Sector







CLASS : 6 SUBJECT : MATHS MODULE : 3

TOPIC: 1: TRIANGLES & CONGRUENT TRAIANGLES - SUBTOPICS

1.Triangle

2.Congruent Figures

3.Congruent Triangles

TOPIC: 2: CIRCLES-SUBTOPICS

1.Circles

TOPIC: 3: COMMERTIAL MATHEMATICS-SUBTOPICS

1. Ratio

2. Propertion

3. Representative Fraction

4. Percentages - 5

5. Profit & Loss

6. Simple Interest

7. Partnership

8. Time & Work

TOPIC: 4: SPEED MATHS-SUBTOPICS

1.Speed Maths

TOPIC: 5: STATISTICKS-SUBTOPICS

1.Statasticks 2.Introduction





CLASS: 7 SUBJECT : MATHS MODULE: 1 TOPIC: 1: NUMBER SYSTEM 1. Number System **TOPIC: 2: SET THEORY -SUBTOPICS** 1.Definition 2. Representation Of Set 4. The Cardinal Number Of A Set 3.Types Of Sets 5.Equivalent Sets: 7.Superset: 6. Subset: 8. Proper Subset: 9. Number Of Subsets: 10.Power Set: **11.Properties Of Subsets:** 13.overlapping Sets: 12. Disjoint Sets: 14. Operations On Sets 15. Union Of Sets: 16.Intersection Of Sets: 17. Difference Of Sets: 18.Universal Set: 19.Complement Of A Set: 20.Laws Of Sets 21. Venn Diagrams 23.Cartesian Product Of Sets 24.Relations **TOPIC: 3: NUMBERS-SUBTOPICS** 1. Properties Of Integers And Fractions 2. Comparison Of Fractions 3.Additions & Subtractions **4. Multiplication Of Fractions** 5.Simple And Complex Fractions **6.**Applications 7.Decimal Fractions 8. Types Of Decimals 9. Representation Of A Decimals 10.Squares And Cubes 11.Square Root Of A Number 12. Perfect Square 13.Method Of Finding Square Root Of A Number 14. Properties Of Perfect Square

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15. Perfect Cube, Properties Of Perfect Cube

16.Properties Of Natural Numbers

TOPIC: 4: REAL NUMBERS-SUBTOPICS

1.Quick Revision

2.Recurring Decimals :

3.Procedure To Convert A Mixed Recurring Decimal Into P/Q Form :

4. Irrational Number

5. Real Number

6. Properties Of Real Numbers

7.Inequality Laws :

TOPIC: 5: EXPONENTS & RADICALS-SUBTOPICS

1.Radical Or Surd: 2.Types Of Radicals

3. Order Of The Surd : 4.Laws Of Radicals :

5. Rationalisation Of Irrational Number

6.Conjugate Irrational Numbers :

7.Binomial Surds : 8.Laws Of Radicals

9. Comparision Of Irrational Numbers :

TOPIC: 5: ALGEBRA-SUBTOPICS

1. Definition Of Polynomials

2. Value Of The Polynomials

3. Monomial

4. Degree Of Monomial

5. Degree Of The Polynomial

6. Zero Of The Polynomial 7.Like & Unlike Terms

8. Ascending & Descending Order Of The Polynomial

9. Additive Inverse & Difference Of Polynomials















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	CLASS: 7			
11	SUBJECT : MATHS			
	MODULE : 3			
TOPIC: 1: QUADRILATERALS -SUBTOPICS				
	Introduction			
	Constituents Of A Quadrilateral			
	Quadrilaterals In Practical Life			
	Some Related Terms To Quadrilaterals			
	Properties Of A Parallelogram			
	Mid-Point Theorem			
TOPIC:2:	CIRCLES -SUBTOPICS			
	Terms And Facts Related To Circles			
	Arc Properties Of A Circle			
	Competition Window			
TOPIC:3:	SURDS-SUBTOPICS			
	1. Surd:			
	2. Laws Of Radicals			
	3. Rationalising Factor (R.F.)			
	4. Conjugate Surds			
	5. Procedure To Find Square Root Of A Surd			
	6. Procedure To Find Cube Root Of A Surd			
	7. Procedure To Find The Value Of			
TOPIC:4:	LOGARITHMS-SUBTOPICS			
	1. Logarithms			
	2. Concept			
	3. Concept			







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5.Prime Factorisation 6.Number Of Factors 7. Sum Of The Factors 8.Method Of Finding The Co Factors 9.Factorisation Method Of Hcf: 10 Prime Eactorisation Method For Hcf 11. Finding G.C.D. By Division Method : 12. Division Method For Hcf 13.L.C.M, Lcm By Prime Factorization & Common Division 14. Division Rule 15. Relation Between H.C.F. And L.C.M Of Two Numbers 16.H.C.F. And L.C.M. Of Fractions : 17. Squares : 18.Perfect Square : **19.**Properties Of Square Numbers : 20.Pythagorean Triplet : 21. Concept Of Unit Digit 22. Concept Of Highest Powers Of Prime Numbers 23. Square Root: 24.Finding Square Root: 25. Properties Of Square Root: 26.Square Root Of Perfect Square By Long Division 27.Square Roots 28.Square Roots Of Fractions







CLASS :8 SUBJECT : MATHS MODULE : 2

TOPIC: 1: GEOMETRY-SUBTOPICS

1. The Essential Stages In The Structure Of Geometry :

2. Methods Of Proof

3. Straight Lines

4. Angles Formed When A Transversal Cuts Two Parallel Lines 5. Parallel Lines:

5. Parallel Lines - Transversal

6. Properties Of Angles When Two Parallel Lines Are Cut By

A Transversal

TOPIC: 2 : MENSURATION-SUBTOPICS

1.Mensuraton

2. Area Of Rectangle And Square Paths

3.Solved Examples

4.Circles

5.Ring

6.Sector

TOPIC: 3: PROGRESSIONS-SUBTOPICS

1. Progressions & Series

2. Sum Of An Infinite G.P-10

3. Harmonical Progression-11

4. Arithmetico-Geometric Sequence





CLASS:8 **SUBJECT : MATHS MODULE: 3 TOPIC: 1: OUADRILATERALS-SUBTOPICS** 1. Introduction 2. Constituents Of A Quadrilateral 3. Ouadrilaterals In Practical Life 4. Some Related Terms To Ouadrilaterals 5. Properties Of A Parallelogram 6. Mid-Point Theorem **TOPIC: 2: CIRCLES-SUBTOPICS** 1.Terms And Facts Related To Circles 2. Arc Properties Of A Circle 3. Competition Window **TOPIC: 3: MENSURATION - 2-SUBTOPICS** 1.Introduction 2.Cuboid 3.Cube 4.Crosssection 5.Right Circular Cylinder 6.Hollow Right Circular Cylinders 7.Right Circular Cone 8.Sphere 9. Hemispherical Shell Some Important Questions 10.Units Of Measurement Of Area And Volume 11.Competetion Window 12.Frustum **TOPIC: 4: SURDS-SUBTOPICS** 1.Surd : 2. Jaws Of Radicals : 3.Rationalising Factor (R.F.) : 4. Conjugate Surds: 5. Procedure To Find Square Root Of A Surd: 6.Procedure To Find Cube Root Of A Surd:





CLASS :9 SUBJECT : MATHS MODULF : 1

TOPIC: 1: TRIGONOMETRIC RATIOS-SUBTOPICS

- 1. Trigonometry
- 2.Introduction To Trigonometry

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3. Angle:

- 4.Right Angle Triangle:
- 5. Properties :
- 6. Systems Of Measurement Of Angles :-
- 7. Radian 8. Radian
- 9. Length Of An Arc Of A Circle
- 10. Area Of A Sector Of A Circle.
- 11. Trigonometric Ratios Of Any Angle
- 12. Signs Of The Trigonometric Ratios
- 13. Coterminal Angles :-
- 14. Trigonometric Ratios
- 15. Trigonometric Ratios Of Allied Angles.
- 16. Reciprocal Relations :
- 17. Quotient Relation Of T-Ratios :
- 18. Powers Of Trigonometric Ratios :
- 19. Trigonometric Identities :
- 20. Fundamental Identities :

TOPIC: 2 : COMPOUND ANGLES-SUBTOPICS

1.Compound Angles

Topic: 3: Multiples & Sub Multiples-SUBTOPICS

- 1. To Find The Trigonometric Ratios Of 3a In Terms Of Those Of A 2. To Express The Trigonometric Ratios Of The Angle A
- In Terms Of Case 2a
 - In Terms Of Cos 2a







TOPIC: 4: TRANSFORMATIONS-SUBTOPICS 1. Transformation Of Sum Or Difference Into Product Of **Trigonometric Ratios** 2.Sum And Difference Of Sines And Cosines 3 Identities TOPIC: 5: ANALYTICAL GEOMETRY-SUBTOPICS 1. Analytical Geometry 2. Inclination Of A Line And Slope Of A Line 3. Distance Formula 4. Section Formula 5. Centre 6. Area Of Triangle 7. Area When Sides Are In Equation Form 8. Perpendicular Form Or Normal Form : 9. Translation Of Axes : 10. Rotation Of Axes : **11. Symmetric Form** 12. Parametric Form : 13. Position Of Points With Respect To Line 14. Ceva's Theorem : 15. Menelau's Theorem : 16. Angle Between Two Lines : 17. Condition For Concurrency Of Lines : 18. Additional Concept **TOPIC: 5:** THREE DIMENSIONAL GEOMETRY-SUBTOPICS 1. Three Dimensional Geometry 2. Distance Formula 3. Section Formula 4.Centroid 5. Area Of Triangle :







CLASS :9 SUBJECT : MATHS MODULE : 2

TOPIC: 1 : SET THEORY-SUBTOPICS

Set Theory Introduction :

2. Subsets:

3. Universal Set:

4.Set Theory In Practical Problems :

TOPIC: 2 : RELATIONS-SUBTOPICS

Relations

1.Introduction

2.Cartegian Product Of Sets 3.Relation :

3. Types Of Relations Based On Ordered Pairs

4. Types Of Relations On A Set

TOPIC: 3: FUNCTIONS-SUBTOPICS

1.Introduction 2.Equal Functions:

3.Types Of Functions 4.Algebraic Functions -

5.One - One And Onto Functions

6.Onto Function : 7.One-One, Onto Function (Bijection) :

8.Inverse Of A Function : 9.Composite Function :

10.An Important Property Of Composite Function :

11.Sum, Difference, Product And Quotient Of Real Functions :

TOPIC: 4 : MATRICES-SUBTOPICS

Matrices

1.Introduction 2.Comparable Matrices :

3. Addition Of Matrices :

4. Multiplication Of A Matrix By A Scalar :

5. Positive Integral Powers Of Matrices :

6.Transpose Of A Matrix :

7.Determinent Of A Matrix

TOPIC: 5 : QUADRATIC EQUATIONS-SUBTOPICS

1. Quadratic Equation




EDU HUNT CLASS:9 SUBJECT : MATHS **MODULE: 3 TOPIC: 1 : GEOMETRY-SUBTOPICS** 1.Introduction 2.Circle **TOPIC: 2**: LIMITS-SUBTOPICS 1.Introduction 2.1 imit Of A Function 3.One Sided Limits 4. Evaluation Of One Sided Limits **5.Limits At Infinity** 6 Some More Standard Limits 7. Evaluation Of Limits **TOPIC: 3 : PERMUTATIONS & COMBINATIONS-SUBTOPICS** 1.Introduction : 2.Examples : **3.**Factorial Notation : 4 Permutations : **5. Practical Problems Involving Permutations :** 6.Permutations Of Things Not All Different : 7.Permutations With Repetitions : 8.Circular Permutation 9.Introduction & Definition Of Combination : **10.Application Of Combinations : 11.Division Into Groups** 12. Mixed Problemes On Permutations And Combinations :







QUESTION PAPER PATTERN FOR SCHOOLS (Weekly/Fortnight)

MAINS MODEL TEST: We have two patterns.

PATTERN - A:

- * No. Of Total Questions: 90;
- * Time Duration: 90 Mins.

PATTERN - B

- * No. Of Total Questions: 180
- * Time Duration: 3 Hrs.
- Each question carries 4 marks. No negative marks.
 Based on the programme that you choose, you will be given Pattern - A or Pattern - B.
- * AT the end of each module 3 Hrs, MAINS MODEL
 & ADVANCED MODEL GRAND TESTS will be conducted
- We have different kinds of advanced exams.
 2013 p1, p2, 2014 p1, p2, 2015 p1, p2, 2016 p1, p2, 2017 p1, p2 models. We may conduct in any one of these models.

FOR COLLEGES & ACADEMIES

Weekly Mains model/Advanced model & IPE model tests will be conducted.





Iмро All ma	IIT - OLYMPIAD I DRTANT INSTRUCTIONS : Questions are compu rks, No mark is deduc	PROGRAMME :: I Isory. Each correct ar ted if not attempted	AAINS MODEL T Time Durati swer carries 4 mark . All are single corre	EST - 15 ion : 90 Min s. No negative act answers			
Svila	y. Ibus:						
MAT	HEMATICS : THREE	DIMENSIONAL GEO	METRY				
ΡΗΥ	SICS : SOUNE)					
СНЕ	EMISTRY : CHEMI	CAL KINETICS					
1.	If the points A(collinear, then the	MATHEMAI -1, 0, 7) and B(he value of k is	1CS 3, 2, k) and C(5	5, 3, -2) are			
	A) –1	B) 1	C) –2	D) 2			
2.	If the vertices of	a \triangle ABC are A(2	, 3, 5), B(-1, 3, 2)) and C(3, 5,			
	-2), then the are	ea of \triangle ABC is					
	A) $8\sqrt{3}$ sq.units		B) $6\sqrt{2}$ sq.units				
	C) 8√2 sq.units		D) $9\sqrt{2}$ sq.unit	ts			
3.	The fourth vertices are (2, 4	tex of the parall 1, -1), (3, 6, -1), (elogram whose 4, 5, 1), is	consecutive			
	A) (-3, 3, 1) 1)	B) (3, 3, 1)	C) (3, -3, 1)	D) (3, 3, –			
4.	The centroid of	the tetrahedron	formed by A(4,	(-2, 3), B(6,			
	1, 7), C(5, 4, -2) and D (4, -2, 3)) is				
	A) $\left(5, \frac{1}{4}, \frac{11}{4}\right)$	$\mathbf{B}) \left(5, \frac{1}{4}, \frac{11}{2}\right)$	C) $\left(5, \frac{1}{2}, \frac{11}{4}\right)$	D) None			
5.	Which of the fol	lowing is a three o	limensional figu	re?			
	A) rectangle	B)circle	C) cuboid D) tr	riangle			
	(SAMPLE WEEKEND PAPER)						

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				TOU THE WELFARE OF STUDENTS
6	If P is (10, -5,	-5), then sum of	the distances	from P to YZ-
	plane, ZX-pla	ne and XY-plane		
1	A) 10	B)15	C) 20	D) 0
7.	If we draw pla	nes parallel to the	e coordinate p	lanes through the
	point (3, 3, 3),	then the obtaine	d figure will	be a
	A) cube	B) cuboid	C) square	D) rectangle
8.	A plane canno	ot be drawn throu	gh the lines w	hich are
	A) Intersecting	lines	B) parallel	lines
	C) neither inter	secting nor paralle	llines D)Aan	d B
9.	If P is (-4, 5, 2	2), then the distar	nce between H	and its image in
	YZ-plane is			
	A) 2	B) 4	C) 5	D) 8
10.	The distance of	of the point P(1, 2	, 3) from the c	oordinae axes are
	A) $\sqrt{13}$, $\sqrt{10}$, $\sqrt{10}$	$\sqrt{5}$	B) √11, √	$\sqrt{10}, \sqrt{5}$
	C) $\sqrt{13}, \sqrt{20}, \sqrt{20}$	$\sqrt{15}$	D) $\sqrt{23}$, $\sqrt{23}$	$\sqrt{10}, \sqrt{5}$
11.	The 1 st point	of trisection of seg	gment joining	g (3, -1, 2) and (9,
	5, 2) is			
	A) (5, 1, 5)	B) (5, 1, 2)	C) (5, 1, 4	4) D) (4, 1, 6)
12.	The ratio in w	hich yz - plane div	vides the line s	egment joining (–
	3, 4, -2), (2, 1	, 3) is :		
	A) -4 : 1	B) 3 : 2	C) –2 : 3	D) 1 : 4
13.	In a $\triangle ABC$	the mid points	of the sides	AB, BC, CA are
	respectively	(l, 0, 0), (0,	<i>m</i> , 0) and	(0, 0, n). Then
	$AB^2 + BC^2 + C^2$	CA^2		
	$l^2 + m^2 + n$	$\frac{1}{2}$ =		
	$(\Delta) 2$	B) 4	C) 8	D) 16
14	If $(2, k, -1)$ is	the centroid of f	be triangle wi	ith vertices (2, _1
17.	$\begin{array}{c} 1 (2, k, -1) \\ 2 (1 - 3 - 4) \end{array}$	and $(3 k - 1)$ the	$\frac{1}{2} n k = \frac{1}{2}$	ith vertices (2, -1,
	-), (-, -, -, -,			
	A) $\frac{4}{2}$	B) 12	C) –4	D) –2
	3			

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The circumcentre of the triangle formed by the points (1, 2, 3), (3, -1, 5), (4, 0, -3) is

A) (2, 2, 2) B) (1, 1, 1) C) (3, 3, 3) D)
$$\left(\frac{7}{2}, -\frac{1}{2}, 1\right)$$

PHYSICS

16. The wave produced in a sonometer is A) longitudinal B) tran

C) transverse stationary

B) transverse

D) longitudinal stationary

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17. When stationary waves are set up, pick out the correct statement from the following

A) all the particles in the medium are in the same phase of vibration at all times and distances

B) the particles with an interval between two consecutive nodes are in phase, but the particles in two such consecutive intervals, are of opposite phase

C) the phase lag along the path of the wave increases as the distance from the source increases

D) only antinodes are in same phase

18. In a stationary wave

- A) phase is same at all points in a loop
- B) amplitude is same at all points
- C) energy is constant at all points
- D) temperature is same at all points
- 19. Standing waves are produced by the superposition of two waves $y_1 = a \sin(\omega t kx)$, $y_2 = a \sin(\omega t + kx)$. The amplitude of a particle at distance x is

A) 2a sinkx B) 2a coskx C) a sinkx D) a coskx

20. A sonometer wire has a length of 114 cm between two fixed ends. Where should two bridges be placed to divide the wire into three segments whose fundamental frequencies are in the ratio 1 : 3 : 4 ?

A) First bridge is to be placed 72 cm from one end. Second bridge is to be placed 96 cm from one end

B) First bridge is to be placed 96 cm from one end. Second bridge is to be placed 72 cm from one end

C) First bridge is to be placed 72 cm from one end. Second bridge is to be placed 72 cm from one end

D) First bridge is to be placed 96 cm from one end. Second bridge is to be placed 96 cm from one end





21	A brick is hung from a so	nometer wire If th	he brick is immersed
	in oil, then frequency of t	he wire will	R DIRKIS minerseu
	A) increase due to buoya	ncy B) decre	ease
	C) remains unchanged	D) incre	ase due to viscosity
	of oil		-
22 .	λ is maximum wavelen	gth of a transvers	e wave that travels
	along a stretched wire w	<mark>/hose two ends a</mark>	re fixed. The length
	of that wire is		
	A) 2λ B) λ	C) _λ /2	D) 3 λ /2
23.	A stretched string of len	gth l , fixed at bot	th ends, can sustain
	stationary waves of wave	elength λ , correct	ly given by
	$A) \lambda = \frac{l^2}{l^2} \qquad B) \lambda = \frac{l^2}{l^2}$	$\frac{p^2}{c}$ C) $\lambda = 2$	$\lambda = \frac{2l}{2}$
	A) $2p$ B) $k =$	$2l \qquad \qquad$	(p D) = p
24.	If the length of a stretche	ed string is shorter	hed by 40% and the
	tension is increased by a	44%, then the ra	tio of the final and
	$\begin{array}{c} \text{Initial fundamental freque}\\ \text{(A) 2.1} \\ \text{(B) 3.2} \end{array}$	C) 3.4	D) 1·3
25.	The fundamental freque	ncv of a stretched	string with a weight
	of 9kg is 289 Hz. The wei	ight required to p	roduce its octave is
	A) 9 kg wt B) 16 k	g wt C) 25 kg	g wt D) 36 kg wt
26 .	If oil of density higher the	han that of water	is used in place of
	water in a resonance tu	be its frequency v	will
	A) increase	B) decre	ease
	C) remain the same	sity of oil	
27	Frequency range of the	audible sounds is	
-/.	(a) $0 Hz - 30 Hz$	(b) 20 F	lz – 20 kHz
	(c) 20 <i>kHz</i> – 20,000 <i>kHz</i>	(d) 20 k	:Hz – 20 MHz
28.	A man fired a bullet in fro	ont of a mountain a	nd he heard its echo
	after 2 seconds. After tra	velling a distance	of 85 m towards the
	mountain, he fired anoth	ner bullet and hea	rd its echo after 1.5
	seconds. The velocity of	of sound and dis	tance between the
	mountain and the man w A > 240 m/s = 240	when the first bull	et was fired are
	A) 340m/s, 340m	B) 340n	n/s,140m

X





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-	C) 140m/s,340m		D) 140m	/s,140m	
29.	A person is infron	t of a fort v	vall. The perso	on can he	ar echo of
	sound produced by	him when i	ninimum dista	nce betwe	en person
	and wall is 16.75 n	n. The velo	city of sound i	in air is	
	A) 330 m/s	3) 335 m/s	C) 337.5	m/s I	D) 345 m/s
30.	A stone is dropped	into a lake	from a tower 5	500 metre	high. The
	sound of the splas	h will be h	eard by the m	ian appro	oximately
	after		(1) 01		
	(a) 11.5 seconds		(b) 21 s€	conds	
	(c) 10 seconds	CHEN	(ɑ) 14 s€	econds	
21	The minimum or	CHENI	SIKI incd for mole	aulas to d	nton into
51.	chemical reaction	is called	ireu ioi moie	cules to t	
	A) Kinetic energy	is cancu	B) Poten	tial energy	7
	C) Threshold energy	7	D) Activa	ation energy	ν
32.	In a reaction, thre	shold energ	gy is equal to	2	
	A) activation energy				
	B) normal energy of	the reactant	S		
	C) activation energy	+ energy of	freactants		
	D) activation energy	- energy of	freactants		
33.	Collision theory sa	tisfactorily	v explains		
	A) First order reacti	on	B) Zero o	order reac	tion
	C) Bimolecular reac	tion	D) Any o	rder react	ion
34.	In the equilibriu	m reaction	$A + B \Leftrightarrow C +$	D, the a	ictivation
	energy for the for	ward react	ion is 25 kcals.	$mole^{-1}$	nd that of
	the backward rea	ction is 15	KCals. mole ⁻¹ .	which o	one of the
	A) it is an avotherm		Cl : (E - 90) R) it is an and at	hormio pr	00000
	C it is a reaction for	r which A H	-0 D) it is a	sublimatic	n process
35.	In a reaction $A \rightarrow I$	B. when the	concentration	of reactar	nt is made
	8 times, the rate	got doubl	ed. The orde	r of read	ction is
	A) 1/3	3)1	C) 1/2	Ι	D) 2

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 $N_2(g) + 3H_2(g) \rightleftharpoons 2NH_3(g) + 22k.cal.$

The activation energy for the forward reaction is 50 k. cal. What is the activation energy for the backward reaction?

 A) -72 k.cal
 B) -28 k. cal

 C) +28 k.cal
 D) +72k.cal

37. Observe the following about $A \rightarrow B$ which takes place in :

 $A \xrightarrow{E_a(1)} C$ (a)

 $C \xrightarrow{E_a(2)} D$ (b)

 $\mathbf{D} \xrightarrow{\mathbf{E}_{\mathbf{a}}(3)} \mathbf{B}$ (c), then, correct set is



A) For (a), $E_a(1) = 70 \text{ KJ } \& \Delta H = +40 \text{ KJ}$

B) For (b), $E_a(2) = 30 \text{ KJ} \& \Delta H = -20 \text{ KJ}$

C) For (c), $E_a(3) = 20$ KJ& $\Delta H = -10$ KJ

D) For A, \rightarrow B, Δ H = 70 Kj&E₂ = 80 KJ (KJ)

38. The pre-exponential factor in the Arrhenius equation of a second order reaction has the units

(A) mol L^{-1} s⁻¹ (B) L mol⁻¹ s⁻¹ (C) s⁻¹ D) dimensionless

39. During a negative β -decay

(A) An atomic electron is ejected

(B) An electron which is already present within the nucleus is ejected

(C) A neutron in the nucleus decays emitting an electron

(D) A part of the binding energy of the nucleus is converted into an electron



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a				
40.	Identify the mis	sing product in t	he given reaction	n
	${}^{235}_{92}\mathrm{U} + {}^{1}_{0}\mathrm{n} \longrightarrow ?$	$+^{92}_{36}$ Kr $+ 3^{1}_{0}$ n		
	(A) $_{56}^{141}$ Ba	(B) $_{56}^{139}$ Ba	(C) $^{139}_{54}$ Ba	(D) ¹⁴¹ ₅₄ Ba
41.	A radioactive el	ement resemblin	g iodine in prop	erties is
	(A) Astatine Thorium	(B) Lead	(C) Radium	(D)
42.	The radiations fr	om a naturally oc	curring radioactiv	e substance,
	as seen after de	flection by a ma	gnetic field in or	ne direction
	are:			
	(A) definitely alph	na rays	(B) definitely bet	arays
	(C) both alpha an	d beta rays	(D) either alpha	or beta rays
43.	In the first orde	er reaction, the c	oncentration of t	the
	reactant is redu	ce <mark>d to 25% in o</mark> n	e hour. The half	f life period
	of the reaction	is		
	(A) 2 hr	(B) 4hr	(C) 1/2 hr	(D) 1/4 hr
44.	If uranium (mas	s number 238 an	d atomic numbe	r 92) emits
	an µ-particle, th	ie product has m	ass number and	atomic
	number:			
	(A) 236 and 92		(B) 234 and 90	
	(C) 238 and 90		(D) 236 and 90	
45.	A radioactive is	otope having a h	alf-life of 3 days	was
	received after 1	2 days. It was fo	ound that there v	vere 3 gm
	of the isotope i	n the container.	The initial weigh	nt of the
	isotope when p	acked was		
	(A) 12 gm	(B) 24 gm	(C) 36 gm	(D) 48 gm

(SAMPLE WEEKEND PAPER)





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IIT FOUNDATION ACADEMY 9TH CLASS :: MAINS MODEL TEST - 15 :: KEYSHEET								
Q.NO MATHS	KEY	Q.NO PHY	KEY	Q.NO CHE	KEY			
1	В	16	С	31	D			
2	D	17	В	32	С			
3	В	18	Α	33	С			
4	Α	19	В	34	В			
5	С	20	Α	35	Α			
6	С	21	В	36	D			
7	Α	22	С	37	В			
8	С	23	D	38	В			
9	D	24	Α	39	С			
10	Α	25	D	40	Α			
11	В	26	С	41	Α			
12	В	27	В	42	D			
13	С	28	Α	43	С			
14	D	29	В	44	В			
15	D	30	Α	45	D			

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SAMPLE RESULT ANALYSIS MARKS LIST

SALVIKAS EDUCATIONAL INSTITUTIONS :: CAMPUS - 2

JEE MAINS - MODULE - 5 :: WEEK END TEST - 19										
S.N O	OMR NO	NAME OF THE STUDENT	CLAS S	MAT 60	PHY 60	CHE 60	Tota I 180	OVER ALL RANK	GRO UP RAN	×
1	1720143	M RAMYA SRI	6	32	40	52	124	3	1	68.89
2	1720147	DISRIHARSHITHA	6	36	32	56	124	3	1	68.89
3	1720140	SK HAFSA SULTANA	6	20	48	48	116	5	3	64.44
4	1720141	N JAHNAVI	6	28	32	48	108	10	4	60.00
5	1720142	JMANASVI	6	24	40	44	108	10	4	60.00
6	1720149	G VAISHNAVI	6	24	24	48	96	23	6	53.33
7	1720157	SKIKHAJA	6	20	36	40	96	23	6	53.33
8	1720148	S VARSHITHA	6	36	16	40	92	26	8	51.11
9	1720158	SKUMAR	6	20	36	36	92	26	8	51.11
10	2E+06	SK SAFURA	6	28	28	32	88	28	10	48.89
11	1720155	VKABTHIK	6	24	28	36	88	28	10	48.89
12	1720144	MD RUSKAR AKTHAR	6	32	20	32	84	30	12	46.67
13	1720150	SD AYESHA	6	24	24	36	84	30	12	46.67
14	2E+06	BROHITH	6	24	28	32	84	30	12	46.67
15	1720156	SKIMRAN	6	28	20	32	80	35	15	44.44
16	1720151	SK NAGEENA	6	16	28	32	76	37	16	42.22
17	1720159	SKMDIRFAN	6	12	32	32	76	37	16	42.22

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SAMPLE ERROR ANALYSIS FOR MATHS (R= Right; W= Wrong; L = Left; Mk=Marks)

CANDID ATE ID	CANDIDATE NAME	CLA SS	MA THE S R	MATHES R	MAT HES W	MATHES W IDS	MAT HES L	MAT HES L IDS	MA THE S Mk	MA THE S GM	MA THE S GM	MATH ES Avg
1720001	G.CHARITHA SRI DURGA	6	6	1,2,4,6,7,9	9	3,5,8,10,11,12,1 3,14,15	0		24	40	4	24.44
1720002	K.DHRONA SRI	6	4	8,10,14,15	9	1,2,5,6,7,9,11,12 ,13	2	3,4	16	40	4	24.44
1720003	GJYOTHIRMAI	6	8	1,2,3,6,7,1 1,14,15	7	4,5,8,9,10,12,13	0		32	40	4	24.44
1720004	G.KEDARA HIMA SRI	6	6	1,2,6,7,11, 14	6	5,8,9,10,12,13	3	3,4,15	24	40	4	24.44
1720005	M.KEERTHANA	6	9	1,3,4,6,8,9 ,11,13,14	6	2,5,7,10,12,15	0		36	40	4	24.44
1720006	M.LAKSHMI PRASANNA	6	7	1,2,4,6,7,9 ,12	8	3,5,8,10,11,13,1 4,15	0		28	40	4	24.44
1720007	M.LIKHITHA BHAVANI	6	6	1,2,4,6,7,9	9	3,5, <mark>8,10,11,12,1</mark> 3,14,15	0		24	40	4	24.44
1720008	P.LIKITHA MEENON	6	7	1,2,4,6,11, 14,15	8	3,5,7,8,9,10,12,1 3	0		28	40	4	24.44
1720009	P.M.V.NAGA GAYATRI	6	6	1,2,4,6,11, 14	9	3,5,7,8,9,10,12,1 3,15	0		24	40	4	24.44





(SAMPLE PROGRESS REPORT)

IT & NEET ACADEMY

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IIT - OLYMPIAD PROGRAMME STUDENT'S PROGRESS REPORT :: 2017-18

Name of the student: Y.S.V.SURYA TEJA

Class: 6

Hall ticket no. :1720038

MAINS EXAMS PROGRESS REPORT							
TEST NAME	MATHS/60	PHY/60	CHEM/60	TOT/180	% OF MARKS	CAMPUS RANK	VIKAS RANK
MMT - 1	28	36	20	84	46.7	1	2
MMT-2	60	32	48	140	77.8	6	6
MMT - 3	28	56	48	132	73.3	1	1
MMT - 4	36	52	52	140	77.8	1	1
MMT-5	32	16	48	96	53.3	7	4
MMT-6	32	16	48	96	53.3	4	12
MMT-7	8	32	56	96	53.3	11	15
MMT-8	24	40	44	108	60.0	2	4
MMT - 9	20	56	32	108	60.0	12	18
MMT - 10	48	24	48	120	66.7	5	6
MMT - 11	36	24	48	108	60.0	9	18
M M T - 12	56	40	52	148	82.2	-1	1
MMT - 13	28	44	48	120	66.7	8	9
MMT - 14	40	44	32	116	64.4	9	8
MMT - 15	16	36	32	84	46.7	23	35
MMT - 16	44	52	56	152	84.4	9	9
MMT - 17	28	48	32	108	60.0	5	6
M M T - 18	24	40	60	124	68.9	6	6
MMT - 19	24	36	44	104	57.8	8	13
			ADVANC	ED EXAMS PR	OGRESS REPORT		
	MATHS	РНУ	CHEM	TOT	% OF MARKS	CAMPUS RANK	VIKAS RANK
ALAT	24/80	24/80	33/80	81/240	45.0	1	1
A M 1 - 2	18/60	18/60	39/60	75/180	41.7	1	1
AMI-3	13/62	31/62	12/62	56/186	30.1	4	8
AMT-4	30/60	31/60	37/60	98/180	54.4	1	1
AMT-5	39/62	26/60	35/60	100/186	53.8	1	1
AMT-6	14/60	32/60	32/60	78/180	43.3	3	5
MGT	DA A	A	Α	Α	A	Α	Α
A MT AVG	23.0	27.00	31.33	81.33	42.14	1	2
MMTAVG	32,21	38.11	44.63	114.95	63.86	1	2

MMT - MAINS MODEL TEST

* AMT-ADVANCED MODEL TEST * MGT - MAINS MODEL GRAND TEST

DIRECTOR Eduhunt IIt Academy, Visakhapatnam.

100

DIRECTOR Vikas Educational Institutions Chilakaluripet

AWARDS TO THE TOP STUDENTS





EDU HUNT

- * We recognize and encourage the students talents.
- We take the students average in all mains and advance model tests.
- * Top 3 students in the average marks will be awarded with GOLD,SILVER & Bronze medals.
- * We honor each participant with a certificate of participation.
- * You can honor the students with medals and certificates on your annual day celebrations.
 - We provide progress report card at the end of the programme.



*





BEST MANAGEMENTS/BEST PRINCIPAL AWARD

We believe that our programme will be successful only when there is proper management. It is done by the proper administration by the school principal. We always greatly honor such managements, principals and vice principals at the end of academic year on their annual day function.

CONDITIONS TO GET THIS AWARD:

- 1. Principal/Vice pricnipal/Management has to see that IIT/NEET classes are running regulary.
- 2. They have to check properly whether teachers are following our track sheet or not. Lagging report must be maintained.
- 3. Exams must be conducted as per our track sheet.
- 4. Soon after the exam OMR sheets must be sent to our office.
- 5. Soon after getting result mail, results must be announced to the students.
- 6. Encouraging successful students and motivating students who are not scoring properly.
- 7. Conducting meetings with teachers and parents and identifying the problems why students are not scoring good marks.
- 8. Identifing students requirements and contacting eduhunt for any additional support continuously.



EDU HUNT



EDUHUNT PROVIDES.....

Name

School

PEROSNINALIZED

SCHOOL DAIRIES

IN MULTI COLOR

EDUCATIONAL PLANNING BOOKS

www.EduHunt.Org 9063001942, 9154669197

CONTACT:

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Above mentioned is sample index of our personnalized diary. You can alter, you can send your school pics etc.,

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CONTACT DETAILS:

Please use the following numbers for our uninterrupted service.

Office Hours: 9 AM to 7 PM.

(In any case if the phone is not attended, please leave a message through whats app or sms we will respond immediately)

Material Status, Modification of material, Selection of topics, Standard of material, Solutions for materials, Micro Schedules related queries.

Mrs. Jyothi, Ph: 9154688028

Question Papers preparation status, Question papers key objections, etc., question paper related queries.

Miss. Vijaya, Ph: 9492635462

Result analysis, Names correction etc., result related queries,

Miss. Bhavani, Ph: 7013302333

Any kind of courier status, dispatch related queries,

Mr. RamaNaidu, Ph: 7893458729, 9063001942







SCORING HIGH MARKS IS SECONDARY MANY CAN DO IT

ENHANCING THE LOGICAL THINKING, ANALYSING THE SITUATION AND APPLYING THE KNOWLEDGE VERY FEW CAN DO IT

IT IS THE MAIN GOAL FOUNDATION PROGRAMME

THIS IS THE WAY TO SUCCEED IN OBJECTIVE EXAMS

WE DO IT



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We are Thankful to all Resepected **Teachers, Principals** and Managements For promoting us



