

LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER: SECOND	NAME OF THE TEACHING FACULTY: G. BALA KRUSHNA REDDY SANJUKTA DAS
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Subject: Communicative English	No Of Days per week class allotted: 4	Semester from 20/03/2023 to 27/06/2023	
Weeks: 15	Class days	Theory (60)	Practical (60)
First	1 st	Unit:1 Literature appreciation: reading comprehension: a text related to birth order, practicing skimming the gist, scanning for necessary information	Listening skill: introduction, learning objectives
	2 nd	Reading comprehension: close reading for inference and evaluation, sentence making.	Listening skill: introduction, learning objectives
	3 rd	Reading comprehension: : main idea and supporting points increasing their anticipation skills (through word-guessing activity)	Key vocabulary: understand, comprehension, sequence, directions
	4 th	Reading comprehension exposing them to some vocabulary item they are responsible for in the exam such as: mediator, order, engaging and excel at through reading text.	Key vocabulary: understand, comprehension, sequence, directions
Second	1 st	Reading comprehension: adapting an interesting text, out of the students reading books and implementing in the classroom, unseen passage for Comprehension	Listening skill: materials, Length: 45 to 55 minute lessons

	2 nd	Reading comprehension: Note- making, practice samples	Listening skill: materials, Length: 45 to 55 minute lessons
	3 rd	Reading comprehension: Summarizing, practice samples	Listening dialogs
	4 th	Reading comprehension: Supplying a suitable title, practice more samples.	Listening dialogs
Third	1 st	Standing up for yourself	Listen and draw a story, read or makes up a story and as the students listen they draw the different scenes.
	2 nd	Standing up for yourself (cont.)	Listening skill: Listen and draw a story, read or makes up a story and as the students listen they draw the different scenes.
	3 rd	Standing up for yourself: question and answer discussion.	Speaking skill: reading aloud of dialogues, texts, poems
	4 th	Inchcape rock	Reading aloud of dialogues, texts, poems
Fourth	1 st	Inchcape rock (cont.)	Speeches focusing on intonation.
	2 nd	Inchcape rock: question and answer discussion.	Speeches focusing on intonation.
	3 rd	The magic of teamwork	Introducing oneself
	4 th	The magic of teamwork (cont.)	Introducing oneself
Fifth	1 st	The magic of teamwork (cont.)	Introducing others
	2 nd	The magic of teamwork: question and answer discussion.	Introducing others
	3 rd	To my true friend	Greeting, starting a

			Conversation
	4 th	To my true friend: question and answer discussion.	Greeting, starting a Conversation
Sixth	1 st	Unit: 2 Various paragraphs taken up for Practice keeping in view the Synonyms & antonyms	Talking about oneself
	2 nd	Various paragraphs taken up for Practice keeping in view the Synonyms & antonyms (cont.)	Talking about oneself
	3 rd	Same word used in different situations	Teach both formal and informal conversation skills
	4 th	Same word used in different situations	Teach both formal and informal conversation skills
Seventh	1 st	Single word substitute	Role-plays on any two-situations
	2 nd	Unit: 3 countable and uncountable noun	Role-plays on any two-situations
	3 rd	Articles and determiners	Telephonic conversation
	4 th	Modal verbs	Telephonic conversation
Eighth	1 st	Tenses: present	Developing oral communication skills
	2 nd	Tenses: past	Speaking skill: debate
	3 rd	Future time	Personality development: initiation
	4 th	Voice-change	Physical appearance
Ninth	1 st	Subject-verb agreement	Physical appearance
	2 nd	Unit:4 Paragraph writing Meaning, features of paragraph writing (topic statement, supporting points	Audience purpose

		and plot Compatibility)	
	3 rd	Developing ideas into paragraphs (describing place/ person/ object /situation and any General topic of interest)	Audience purpose
	4 th	Notice, more samples of letters	Using mind maps and brainstorming to explore ideas.
Tenth	1 st	Agenda & minutes of meeting, more samples of letters	Using mind maps and brainstorming to explore ideas.
	2 nd	Report writing (format of a report, reporting an event / news),	Using role play/dialogue/drama
	3 rd	Report writing (format of a report, reporting an event / news) (cont.), more samples of letters	Using role play/dialogue/drama
	4 th	Writing personal letter, more samples of letters	Personality development
Eleventh	1 st	Letter to the principal, librarian, more samples of letters.	Interpersonal skills: appropriate use of non-verbal skills in face-to-face communication
	2 nd	Head of the department, and hostel superintendent, more samples of letters	Viva- voice
	3 rd	Writing business letters Layout of a business letter Letter of enquiry	Viva- voice,
	4 th	Writing business letters Layout of a business letter Letter of placing an order	Group-interviews,
Twelfth	1 st	Writing business letters Layout of a business letter execution of an order	Group-interviews,

	2 nd	Writing business letters Layout of a business letter Complaint, cancellation of an Order(features, format and example)	Group discussion
	3 rd	Job application (features, format and example)	Group discussion
	4 th	C.V.(features, format and example)	Seminars
Thirteenth	1 st	Unit-v Elements of communication introduction to communication 1. Meaning, definition and concept of communication 2. Good communication and bad communication	Seminars
	2 nd	3. Communication model One-way communication model and two-way communication model with examples	Interpersonal skills: seminars
	3 rd	4. Process of communication and factors responsible for it Sender, message, channel, receiver	Presenting in group discussion, seminars and conferences: group discussion
	4 th	Process of communication: Audience, feedback, noise, context	Group discussion
Fourteenth	1 st	Professional communication 1. Meaning of professional communication 2. Types of professional communication	Conferences
	2 nd	professional communication Formal or systematic communication Upward communication (how	Conferences

		it takes place, symbol, merits and demerits)	
	3 rd	Down-ward communication (how it takes place, symbol, merits and demerits) Parallel communication (how it takes place, symbol, merits and demerits)	Presenting in group discussion, seminars and conferences: leadership quality
	4 th	Professional communication Informal communication Grape vine communication (how it takes place, symbol, merits and demerits)	Leadership quality
Fifteenth	1 st	non- verbal communication 1. Meaning of nonverbal communication 2. Different areas of non-verbal communication	Time management
	2 nd	Kinesics or body language (postures and gestures, facial expression and eye Contact)	Time management
	3 rd	non- verbal communication Proxemics or spatial language (private space, personal space, social space, public Space)	Achieving the target
	4 th	non- verbal communication Language of signs and symbols(audio sign and visual sign in everyday life with merits And demerits)	Achieving the target

LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER: SECOND	NAME OF THE TEACHING FACULTIES: DIPTI LAXMI BHUYAN GUNTUKU SUSMITA
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SUBJECT: ENGG. CHEMISTRY	NO. OF. DAYS PER WEEK CLASS ALLOTTED	SEMESTER FROM: 20/03/2023 TO 27/06/2023	
WEEK	CLASS DAY	THEORY	PRACTICAL
1st	1 ST	-Introduction, Matter and its states.	Introduction to chemistry lab, about safety measures, about maintenance of practical records.
	2 ND	-Atomic structure: fundamental particles (electron, proton and neutron), their properties.	Introduction to the students about use of different lab equipments and how to handle them safely.
	3 RD	-Atomic number and mass no. , definition, examples and properties of isotopes, isotones and isobars. -Definitions of atomic weight, mol. Weight, equivalent weight.	-----

	4 TH	<ul style="list-style-type: none"> -Rutherford's atomic model. -Equivalent weight of acid, bases and salts. -concept of arrhenius theory with examples. 	-----
2nd	1 ST	<ul style="list-style-type: none"> -Bohr's atomic model -Molarity and Normality with numericals. -Lowry Bronsted theory with examples. 	Dictation of the procedure of exp. 1, preparation and study of properties of CO ₂ gas, explanation of theory with equations.
	2 ND	<ul style="list-style-type: none"> Bohr and Bury Scheme and AUFBAU'S Principle. -Molality with examples -LEWIS theory for Acid and Base with examples. 	Checking of rough practical record and demonstratation of the experiment.
	3 RD	<ul style="list-style-type: none"> -Hund's rule with examples. -Importance of ph in industry. -Neutralization. 	-----
	4 TH	<ul style="list-style-type: none"> -Electronic configuration. -Ph of solutions with numericals. -Definition and types of salts. 	-----

3 rd	1 ST	-Numericals	Expt. Conducted by the students.
	2 ND	-Correction of class note -clearing of doubts.	Correction of practical records, discussion of viva questions of the expt.
	3 RD	-Numericals.	-----
	4 TH	-Chemical bonding, definition, cause of bonding -Normal and Acidic salts with examples.	-----
4 th	1 ST	-Ionic bond: definition, examples. -Basic and Double salts with examples.	Dictation of the procedure of exp. 2. Preparation and study of properties of ammonia gas. Explanation Of Theory With Equations.
	2 ND	-Covalent bond: definition with examples. -Complex and Mixed salts with examples.	Checking of rough practical record and demonstration of the experiment.
	3 RD	-Coordinate bond: definition with examples. -Numericals.	-----
	4 TH	-Electrochemistry: definition of electrolytes, their types, non electrolytes with examples. -Numericals.	-----
	1 ST	-Electrolysis(principle) -Numericals.	Expt. Conducted by the Students.

5 th	2 ND	Electrolysis of molten NaCl and Aqueous NaCl. -Numericals.	Checking of practical records and discussion of viva questions of expt. 2.
	3 RD	-Faraday's laws of electrolysis. -Numericals on faraday's laws.	-----
	4 TH	-Electroplating (zinc plating).	-----
6 th	1 ST	-Class note correction.	Dictation of the procedure of exp. 3. Crystallization of CuSO ₄ . Explanation Of Theory With Equations.
	2 ND	-Note checking and numericals.	Checking of rough practical record and demonstration of the experiment.
	3 RD	-Corrosion and its types. -Water treatment: sources of water, hard and soft water.	-----
	4 TH	-Rusting of iron and water line corrosion. -Hardness, types of hardness.	-----
7 th	1 ST	-Protection from corrosion by alloying and galvanisation. -Removal of hardness by lime soda method.	Expt. Conducted by the Students.
	2 ND	-Hydrocarbons: definitions, general formula, examples. -Advantages of hot lime over cold lime process.	Checking of practical records and discussion of viva questions of expt. 3.

	3 RD	-Rules for iupac system of nomenclature for alkanes, alcohols, alkyl halides. -Organic ion exchange method.	-----
	4 TH	-Rules for IUPAC system of nomenclature for alkenes and alkynes. -Lubricants: definition and types, uses.	-----
8 th	1 ST	-Rules for writing the structural formula from IUPAC names, bond line notation. -Purpose of lubrication.	Dictation of the procedure of exp. 4. Acid Base Titration. Explanation Of Theory With Equations.
	2 ND	-Revision.	Checking of rough practical record and demonstration of the experiment.
	3 RD	-Aromatic hydrocarbons and Huckel's rule. -Numericals.	-----
	4 TH	-Difference between aliphatic and aromatic hydrocarbons, uses of common aromatic compounds. -Fuel: definition, classification.	-----
9 th	1 ST	-Metallurgy: minerals, ores with examples. -Uses and composition of diesel, petrol and kerosene.	Expt. Conducted by the Students Acidimetry.

	2 ND	-Metallurgical operations. -Producer gas and water gas.	Expt. Conducted by the Students Alkalimetry.
	3 RD	-Gravity separation and Magnetic separation of ore concentration. -LPG, CNG and Coal gas.	-----
	4 TH	-Froth floatation and Leaching methods of ore concentration. -Class note checking and discussion of questions .	-----
10 th	1 ST	-Revision.	Checking of practical records and discussion of viva questions of expt. 4.
	2 ND	-Numericals and class note correction.	Dictation of the procedure of exp. 5. Test of acid radicals.
	3 RD	-Polymers.	-----
	4 TH	-Definition of monomer, homo- polymer, co-polymer.	-----
11 th	1 ST	-Degree of polymerization.	Checking of rough practical record and demonstratation of the experiment.
	2 ND	-Thermosetting, thermoplastic.	Expt. Conducted by the Students.
	3 RD	-Revision.	-----
	4 TH	-Composition and uses of polythene.	-----
12 th	1 ST	-Calcination and roasting. -composition and uses of poly vinyl chloride.	Checking of practical records and discussion of viva questions of expt. 5.

	2 ND	-Smelting, flux, slag with definitions and examples. -composition and uses of Bakelite.	
	3 RD	-Refining of metal.	-----
	4 TH	-Alloys and types with examples. -Elastomers.	-----
13 th	1 ST	-Correction of assignments.	Dictation of the procedure of exp. 6. Test of basic radicals (known).
	2 ND	-Drawbacks of natural rubber.	Checking of rough practical record and demonstration of the experiment.
	3 RD	-Vulcanisation of rubber.	-----
	4 TH	-Advantages of vulcanised rubber over raw rubber.	-----
14 th	1 ST	-Uses and examples of insecticides.	Expt. Conducted by the Students.
	2 ND	-Revision.	Test of unknown acid and basic radicals.
	3 RD	-Examples and uses of herbicides and fungicides.	-----
	4 TH	-Revision.	-----
15 th	1 ST	-Note correction.	Test of unknown salt.
	2 ND	-Bio fertilizers.	Checking of practical records and viva voce.
	3 RD	-Numericals and revision.	-----
	4 TH	-Discussion of possible questions for semester exam.	-----

LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER: SECOND	NAME OF THE TEACHING FACULTIES: MANASWINEE PATNAIK GUNTUKU SUSMITA
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SUBJECT: ENGG. PHYSICS	NO. OF CLASSES ALLOTTED PER WEEK : 04	SEMESTER FROM 20/03/2023 TO 27/06/2023		
WEEK	CLASS DAY	THEORY	CLASS DAY	PRACTICAL
1ST	1 ST	Physical quantities, fundamental and derived units, systems of units	1 ST	Introduction To Physics Lab
	2 ND	dimension and Dimensional formulae of physical quantities.		
	3 RD	Principle of homogeneity, Checking the dimensional correctness	2 ND	Identification Of Instruments In Physics Lab
	4 TH	Scalar and Vector, Vector Representation ,types of vectors. Triangle and Parallelogram law of vector Addition , Numerical.		
2ND	1 ST	Resolution of Vectors –Numericals.	1 ST	Dictation & Demonstration Of Slide Calipers
	2 ND	Vector multiplication (scalar product and vector product of vectors).		
	3 RD	Concept of Rest and Motion, Displacement, Speed, Velocity, Acceleration & FORCE	2 ND	Determine The Volume Of A Hollow Cylinder By Using A Slide Calipers & Checking The Observation Note.
	4 TH	Equations of Motion under Gravity (upward and downward motion)		

3RD	1 ST	Circular motion: Angular displacement, Angular velocity and Angular acceleration, Relation between –(i) Linear & Angular velocity, (ii) Linear & Angular acceleration).	1 ST	Determine The Volume Of A Solid Cylinder By Using A Slide Calipers & Checking The Observation Note.
	2 ND	Projectile, Expression for Equation of Trajectory, Time of Flight,		
	3 RD	Maximum Height and Horizontal Range for a projectile fired at an angle, Condition for maximum Horizontal Range.	2 ND	Checking The Record & Viva Voce Of Exp-1 & Exp-2.
	4 TH	Numericals, Class Note & Assignment Checking		
4TH	1 ST	Work- Formula & SI units.	1 ST	Dictation & Demonstration Of Screw Gauge.
	2 ND	Friction – Concept. Types of friction (static, dynamic), Limiting Friction		
	3 RD	Laws of Limiting Friction	2 ND	Determine The Cross Sectional Area Of A Thin Wire By Using A Screw Gauge & Checking The Observation Note.
	4 TH	Coefficient of Friction , Numericals.Methods to reduce friction.		
5TH	1 ST	Numericals, Class Note Checking	1 ST	Determine The Cross Sectional Area Of A Glass Piece By Using A Screw Gauge & Checking The Observation Note.
	2 ND	Newton’s Laws of Gravitation, Universal Gravitational Constant		
	3 RD	Acceleration due to gravity ,Concept of mass and weight.	2 ND	Checking The Record & Viva Voce Of Exp-3 & Exp-4.
	4 TH	Relation between g and G.Variation of g with altitude and depth		
6TH	1 ST	Kepler’s Laws of Planetary Motion	1 ST	Dictation & Demonstration Of Spherometer.
	2 ND	Numericals, Class Note & Assignment Checking		
	3 RD	Oscillations,Simple Harmonic Motion (SHM)	2 ND	Determine The Convex Radius Of Curvature Of Watch Glass By Using A Spherometer & Checking The Observation Note.
	4 TH	Expression for displacement, velocity, acceleration of a particle in SHM.		

7TH	1 ST	Wave motion, Transverse and Longitudinal wave	1 ST	Determine The Concave Radius Of Curvature Of Watch Glass By Using A Spherometer & Checking The Observation Note.
	2 ND	wave parameters & their relations		
	3 RD	Ultrasonics Properties & Applications.	2 ND	Checking The Record & Viva Voce Of Exp-5 & Exp-6.
	4 TH	NUMERICALS		
8TH	1 ST	Heat and Temperature	1 ST	Dictation & Demonstration Of Simple Pendulum.
	2 ND	Specific Heat Capacity		
	3 RD	Change of state ,Latent Heat	2 ND	Determine The Value Of 'G' By Simple Pendulum & Checking The Observation Note.
	4 TH	Thermal Expansion		
9TH	1 ST	Coefficient of linear, superficial and cubical expansions of Solids & their Relation	1 ST	Checking The Record & Viva Voce Of Exp -7.
	2 ND	Work and Heat, Joule's Mechanical Equivalent of Heat		
	3 RD	First Law of Thermodynamics	2 ND	Dictation & Demonstration Of Prism.
	4 TH	NUMERICALS		
10TH	1 ST	Reflection & Refraction	1 ST	Determine The Angle Of The Prism.
	2 ND	Refractive index, Refraction through Prism (Ray Diagram)		
	3 RD	Critical Angle and Total internal reflection	2 ND	Determine The Angle Of Minimum Deviation By I-D Curve Method.
	4 TH	Fiber Optics & Numericals		
11TH	1 ST	Electrostatics, Coulombs laws	1 ST	Checking The Observation Note.
	2 ND	Unit charge, Absolute & Relative Permittivity		
	3 RD	Electric potential and Potential difference Electric field & field intensity	2 ND	Checking The Record & Viva Voce Of Exp -8.
	4 TH	Capacitance ,Series and Parallel combination of Capacitors		

12TH	1 ST	Magnet, Properties of a magnet. Coulomb's Laws in Magnetism, Unit Pole	1 ST	Dictation & Demonstration Of Bar Magnet-1.
	2 ND	Magnetic field & Field intensity , Magnetic lines of force		
	3 RD	Magnetic & Flux Density (B)	2 ND	Trace The Lines Of Force Due To A Bar Magnet With North Pole Pointing North And Locate The Neutral Points.
	4 TH	Electric Current, Ohm's law and its applications.		
13TH	1 ST	Series and Parallel combination of resistors	1 ST	Checking Bar Magnet-1.
	2 ND	Kirchhoff's laws		
	3 RD	Wheatstone's Bridge	2 ND	Checking The Record & Viva Voce Of Exp -9.
	4 TH	Numericals		
14TH	1 ST	Classnote & Assignment Checking	1 ST	Dictation & Demonstration Of Bar Magnet-2.
	2 ND	Electromagnetism ,Force acting on a current carrying conductor placed in a uniform magnetic field,		
	3 RD	Fleming's Left Hand Rule	2 ND	Trace The Lines Of Force Due To A Bar Magnet With North Pole Pointing South And Locate The Neutral Points.
	4 TH	Faraday's Laws of Electromagnetic Induction, Lenz's Law (Statement) Fleming's Right Hand Rule		
15TH	1 ST	LASER -Properties & Applications	1 ST	Checking Bar Magnet-2.
	2 ND	Principle of LASER		
	3 RD	Wireless Transmission – Ground Waves, Sky Waves, Space Waves	2 ND	Checking The Record & Viva Voce Of Exp -10.
	4 TH	Numericals & Assignment Checking		

LESSON PLAN

DISCIPLINE: MATH AND SCIENCE	SEMESTER: SECOND	NAME OF THE TEACHING FACULTIES: Shishir Kumar Naik Sankar Kumar Pradhan
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SUBJECT: ENGG. MATHEMATICS-II	NO. OF. DAYS PER WEEK CLASS ALLOTTED	Semester: 20/03/2023 to 27/06/2023
WEEK	CLASS DAY	THEORY
1ST	1 ST	Introduction of Relation
	2 ND	Definition of Functions based on set theory
	3 RD	Types of Functions, (i) Constant Function (ii) Identity Function (iii) Absolute Function (iv) Greatest Integer Function
	4 TH	(v) Trigonometric Function (vi) Exponential Function (vii) Logarithmic Function.
	5 TH	Introduction of Limit.
	6 TH	Problems based on the above.
2ND	1 ST	Existence of Limit
	2 ND	Methods of evaluation of Limit (i) $\lim_{x \rightarrow 0} \frac{x^n - a^n}{x - a} = na^{n-1}$ (ii) $\lim_{x \rightarrow 0} \frac{a^x - 1}{x} = \log_e a$ (iii) $\lim_{x \rightarrow 0} \frac{e^x - 1}{x} = 1$
	3 RD	(iv) $\lim_{x \rightarrow 0} (1 + x)^{\frac{1}{x}} = e$ (v) $\lim_{x \rightarrow 0} \left(1 + \frac{1}{x}\right)^x = e$ (vi) $\lim_{x \rightarrow 0} \frac{\log(1+x)}{x} = 1$
	4 TH	(vii) $\lim_{x \rightarrow 0} \frac{\sin x}{x} = 1$ (vii) $\lim_{x \rightarrow 0} \frac{\tan x}{x} = 1$
	5 TH	Definition of Continuity of a Function at a point and problems based on it.
	6 TH	Copy checking and doubt clear class.
3RD	1 ST	Derivative of a function at a point.

	2 ND	Algebra of derivatives.
	3 RD	Derivative of Standard Functions.
	4 TH	Problems based on derivative using formula.
	5 TH	Problems based on derivative using formula.
	6 TH	Doubt clear class.
4 TH	1 ST	Derivative of Composite functions (chain rule).
	2 ND	Problems based on Composite functions.
	3 RD	Derivative of Inverse Trigonometric functions.
	4 TH	Problems based on Inverse Trigonometric functions.
	5 TH	Differentiation by Trigonometrical Transformations
	6 TH	Doubt clear class.
5 TH	1 ST	Methods of Differentiation: (i) Parametric functions
	2 ND	(ii) Implicit functions
	3 RD	Problems based on Parametric and Implicit functions.
	4 TH	(iii) Logarithmic functions
	5 TH	Problems based on Logarithmic functions
	6 TH	Copy checking and Doubt clearing class.
6 TH	1 ST	Derivative of a function with respect to another function.
	2 ND	Application of Derivative: (i) Successive differentiation (upto second order)
	3 RD	Problems based on Successive derivatives.
	4 TH	(ii) Partial differentiation (Function of two variables upto second order)
	5 TH	Problems based on Partial differentiation.
	6 TH	Copy checking and Doubt clearing class.
7 TH	1 ST	Definition of integration as inverse of differentiation
	2 ND	Integral of standard functions
	3 RD	Methods of integration: (i)Integration by substitution
	4 TH	Problems based on substitution method
	5 TH	(ii) Integration by Parts
	6 TH	Problems based on Integration by Parts

8 TH	1 ST	Integration of the form (i) $\int \frac{dx}{x^2+a^2}$ (ii) $\int \frac{dx}{x^2-a^2}$ (iii) $\int \frac{dx}{a^2-x^2}$
	2 ND	Integration of the form (iv) $\int \frac{dx}{\sqrt{x^2-a^2}}$ (v) $\int \frac{dx}{\sqrt{a^2-x^2}}$ (vi) $\int \frac{dx}{\sqrt{x^2+a^2}}$
	3 RD	Integration of the form (iv) $\int \frac{dx}{x\sqrt{x^2-a^2}}$ (v) $\int \sqrt{a^2-x^2} dx$ (vi) $\int \sqrt{a^2+x^2} dx$ (vii) $\int \sqrt{x^2-a^2} dx$
	4 TH	Problems based on above.
	5 TH	Definite Integral
	6 TH	Properties of definite integral
9 TH	1 ST	Properties of definite integrals
	2 ND	Problems based on Properties of definite integrals
	3 RD	Application of integration: (i) Area enclosed by a curve and X- axis.
	4 TH	Area of circle with center at origin.
	5 TH	Question and answer based on area.
	6 TH	Class test.
10 TH	1 ST	Order and Degree of differential equation.
	2 ND	Solution of differential equation of 1 st order and 1 st degree equation by method of separation of variables.
	3 RD	Question and answer based on this.
	4 TH	Liner equation of the form $\frac{dy}{dx} + py = Q$ where P and Q are the function of x.
	5 TH	Liner equation of the form $\frac{dx}{dy} + px = Q$, where P and Q are the function of y.
	6 TH	Doubt clear and copy checking.
11 TH	1 ST	Previous year questions based on differential equation.
	2 ND	Vector algebra: Introduction
	3 RD	Types of vectors
	4 TH	Representation of vector
	5 TH	Magnitude and direction of vectors.

	6 TH	Question based on this
12 TH	1 ST	Addition and subtraction of vectors.
	2 ND	Position vector
	3 RD	Condition of co-linearity
	4 TH	Scalar product of two vectors. (Dot product)
	5 TH	Geometrical meaning of dot product.
	6 TH	Problems based on this.
13 TH	1 ST	Angle between two vectors.
	2 ND	Scalar and vector projection of two vectors.
	3 RD	Vector product (cross product).
	4 TH	Geometrical meaning of vectors product.
	5 TH	Area of triangle and parallelogram.
	6 TH	Problem based on this.
14 TH	1 ST	Revision on vector Algebra
	2 ND	Revision on vector Algebra
	3 RD	Revision on Limit and continuity
	4 TH	Revision on Limit and continuity
	5 TH	Revision on Derivatives
	6 TH	Revision on Derivatives
15 TH	1 ST	Revision on Derivative
	2 ND	Revision on Integration
	3 RD	Revision on Integration
	4 TH	Revision on Integration
	5 TH	Revision on Differential Equation
	6 TH	Revision on Differential Equation