Kota, Rajasthan CORE ACADEMY Enhancing ability to learn & Express

REVIVE & THRIVE BATCH MATH / BIO

WEEK	SUB	PORTION OF SYLLABUS	TEST PLAN
WEEK 1 (25 NOV - 30 NOV 2024)	PHY	Electric ield, Electric dipole and electric field due to dipole on electric dipole, Potential energy gauss's law, Application of Gauss's laws.	NA
	CHEM	Solution and colligative properties	
	MATH	Vectors & Vector Algebra	
	BIO	Sexual reproduction in flowerina plants	
WEEK 2 (2 DEC- 7 DEC)	PHY	Electric potential due to point charge and electric potential due to dipole, Equipotential surface, Parallel plate capacitor, its combination and energy stored.	7 DEC, 8 DEC
	CHEM	Chemical kinetics electrochemistry	
	MATH	3 - Dimensional Geometry	
	BIO	Human reproduction, Reproductive health	
WEEK 3 (9 DEC- 14 DEC)	PHY	Ohm's law, Drift velocity derivation, Temperature dependent resistor, Combination of cell, Jonlis heating effect , Biot - savart law and its application.	NA
	CHEM	d and f block elements	
	MATH	Linear Programming Problems, Probability	
	BIO	Reproductive health (CON T.), Priciples of Inheritance & Variation	
WEEK 4 (16 DEC- 21 DEC)	PHY	Ampere's law, Motion of charge in magnetic field, Force on current carrying conductor, Force b/w panalled wire, torque on current carrying loop, Magnetic moment due to revolution of electron.	21 DEC, 22 DEC
	CHEM	Coordination compounds	
	MATH	Probability, Matrices & Determinants	
	BIO	Principles of inheritance (CON T.), Molecular basis of inheritance	
WEEK 5 (23 DEC- 28 DEC)	PHY	Magnetic dipole moment deu to bar magnet, Foraday law of EMI, Motional EMF, Self inductance, mutual inductance and energy stored in solenoid.	NA
	CHEM	Haloalkanes and Haloarenes	
	MATH	Relation & Functions, Continuity	
	BIO	Molecular basis (CON T.)	
WEEK 6 (30 DEC- 4 JAN)	PHY	RMS current and voltage, L-C-R (series) working of transformer, Electromagnetic range	4,5,6 JAN
	CHEM	Alcohols phenols and ethers	
	MATH	Differentiation, Application of Derivatives	
	BIO	Evolution	

WEEK	SUB	PORTION OF SYLLABUS	TEST PLAN
WEEK 7 (6 JAN - 11 JAN 2024)	PHY	Laws of refraction - prism, Lens maker formula, Combination of lanses, Compound microscope, Interference of light YDSE experiment	NA
	CHEM	Aldehydes ketones and carboxylic acids	
	MATH	Application of Derivatives	
	BIO	Human health & Human health and diseases, Microbes in human welfare	
WEEK 8 (13 JAN-18 JAN)	PHY	Malus law, Brewster's law, Photoelectric effect experiment, De-broglie wavelenght, Introduction of atom, Rutherford exp.	18, 19, 20 JAN 2025
	CHEM	Amines and biomolecules	
	MATH	Integrals	
	BIO	Biotech Principles & Processes, Biotech applications	
WEEK 9 (20 JAN-25 JAN)	PHY	Bohr's model, Derivation of origin of sectrum (rodies, velocity, charges) Mass, Defeat binding energy, Nuclear reaction.	NA
	CHEM	Solid state and surface chemistry	
	MATH	Differential Equation	
	BIO	Biotech applications (CON T.), Organisms & Populations	
WEEK 10 (27 JAN-01 FEB)	PHY	P-n junction diode, LED, Solar Cell, Rectifier & Logic gate	27, 28, 29 JAN 2025
	CHEM	P-blocks	
	MATH	Definite Integrals, Application of Integrals	
	BIO	Ecosystem, Biodiversity & its conservation	
WEEK 11 (03 FEB-08 FEB)	PHY		FULL SYLLABUS EXAMS WILL BE SCHEDULED LATER ACCORDING TO TIME TABLE
	CHEM	Polymers and chemistry in our daily lifes	
	MATH	Syllabus Revision Via Random Questions	
	BIO		
WEEK 12 (10 FEB-15 FEB)	PHY		
	CHEM		
	MATH		
	BIO		
FEB TO MARCH		SUPPORTING STUDENTS FOR THEIR BOARD PREP VIA DOUBT REMOVAL, INDIVIDUAL ATTENTION.	
MARCH TO MAY		REVISING SYLLABUS WITH SOLVING MCQS + TESTING FOR CUET OR EQUIVALENT EXAMS	