TEST PATTERN

1. **Topic Wise Test (TWT):-** There are 70 topic wise test and time duration of each test is 1:00 Hour.
2. **Full Length Test (FLT)**:-These full length tests are as per GATE Exam pattern. There are 65 questions in each. Out of 65 questions, students have to attempt 65 questions. Total time duration is 03:00 Hour. Total number of test is **five**.
3. Student can attempt more than **1650+** number of questions during this test series.

Topic Wise Test (TWT) Schedule

01 Mathematical Physics		
Status	**Name of Test**	**Topics**
Released	TWT-01	Vector Analysis
	TWT-02	Dirac Delta Function
	TWT-03	Ordinary Differential Equation
	TWT-04	Linear Algebra and Matrices
	TWT-05	Fourier Series
	TWT-06	Complex Number and Functions
	TWT-07	Complex Integration / Contour Integration
	TWT-08	Fourier Transform and Laplace Transform
	TWT-09	Special functions-Hermite, Bessel, Laguerre and Legendre functions

02 Classical Mechanics		
Status	**Name of Test**	**Topics**
Released	TWT-01	Lagrangian Formalism
	TWT-02	Small Oscillation, Phase Curve and Stability Analysis
	TWT-03	Central Force
	TWT-04	Hamiltonian Formalism
	TWT-05	Poisson Bracket, generating function and canonical transformation
	TWT-06	Rotational Dynamics
	TWT-07	Special Theory of Relativity

03 Electromagnetic Theory		
Status	**Name of Test**	**Topics**
Released	TWT-01	Coulomb's Law, Gauss Law, Electrostatic Potential, Poisson's & Laplaces Equations, Electrostatic Energy and Properties of Conductor
	TWT-02	Electric Dipole, Polarisation, Electrostatic Boundary Conditions, Multipole Expansion and Image Problem
	TWT-03	Motion of Charged Particles in Electric and Magnetic Fields, Magnetic Force Experienced by Current Elements, Biot Savart Law and Amperes Law
	TWT-04	Magnetic Vector Potential, Magnetic Dipole, Magnetisation, Magnetostatic Boundary Conditions
	TWT-05	Elecromagnetic Induction, Maxwell Equations

	TWT-06	E.M. Wave in Free Space, Dielectrics, Conductors, Reflection and Transmission
	TWT-07	Rectangular Wave Guide, Potential Formulation for Time Varying Fields, and Radiation from Moving Charges

04 Quantum Mechanics		
Status	**Name of Test**	**Topics**
Released	TWT-01	Wave Particle Duality & Uncertainty Principle
	TWT-02	Tools of Quantum Mechanics Part - 1
	TWT-03	Tools of Quantum Mechanics Part -2
	TWT-04	Postulates of Quantum Mechanics
	TWT-05	Free Particle, Potential barriers and Potential Well
	TWT-06	1D Harmonic Oscillator, Dirac Function and 2D, 3D in Cartesian Coordinate
	TWT-07	Angular Momentum, Hydrogen Atom and Spin
	TWT-08	Approximation Method
	TWT-09	Scattering, Identical particles and Relativistic Quantum Mechanics

05 Thermodynamic and Statistical Physics		
Status	**Name of Test**	**Topics**
Released	TWT-01	Kinetic Theory of Gases and Maxwell Boltzmann Distribution Law
	TWT-02	Transport Phenomenon, Real Gases, First and Second Law
	TWT-03	Entropy, Thermodynamic Potentials, Maxwell Relations
	TWT-04	Blackbody Radiation and Elementary Statistical Mechanics
	TWT-05	Random Walk Problem and Micro Canonical Ensemble
	TWT-06	Canonical Ensemble
	TWT-07	Quantum Statistics
	TWT-08	Phase Transition and Grand Canonical Ensemble

06 Electronics and Experimental Methods		
Status	**Name of Test**	**Topics**
Released	TWT-01	Network Analysis
	TWT-02	Semiconductor Physics
	TWT-03	PN Junction Diode and their Applications
	TWT-04	Bipolar Junction Transistors, DC and AC Analysis
	TWT-05	Operational Amplifier
	TWT-06	Digital Electronics Part-1
	TWT-07	Digital Electronics Part-2

07 Atomic & Molecular Physics		
Status	**Name of Test**	**Topics**
Released	TWT-01	Bohr's Theory and Sommerfeld Model
	TWT-02	Fine Structure
	TWT-03	L-S & J-J Coupling
	TWT-04	Zeeman Effect
	TWT-05	Paschen Back Effect & Hyperfine Structure
	TWT-06	Rotational Spectroscopy
	TWT-07	Vibrational and Raman Spectra
	TWT-08	Laser

H.No. 40-D, G.F., Jia Sarai, Near IIT, Hauz Khas, New Delhi-16
Phone: 011-26865455/+91-9871145498, Website: www.physicsbyfiziks.com, Email: fiziks.physics@gmail.com

08 Solid State Physics		
Status	**Name of Test**	**Topics**
Released	TWT-01	Crystal Structure
	TWT-02	XRD and Reciprocal Lattices
	TWT-03	Lattice Vibrations
	TWT-04	Specific Heat of Solid
	TWT-05	Free Electron Theory
	TWT-06	Band Theory of Solid
	TWT-07	Superconductor

09 Nuclear and Particle Physics		
Status	**Name of Test**	**Topics**
Released	TWT-01	General properties of nuclei
	TWT-02	Liquid Drop Model
	TWT-03	Shell Models and Collective Models
	TWT-04	Nuclear Forces
	TWT-05	Radioactivity
	TWT-06	Alpha beta and gamma decay
	TWT-07	Nuclear Reactions, Fission and Fusion
	TWT-08	Particle Physics

Full Length Test (FLT) Pattern And Schedule

Total Number of Questions: **65 Questions**

General Aptitude (GA) 5 questions of 1 mark, 5 questions of 2 marks: **10 Questions**

Physics (PH) 25 questions of 1 mark, 30 questions of 2 marks: **55 Questions**

Status	Name of Test	Syllabus
Released	FLT – 01	Complete Syllabus of GATE
	FLT – 02	Complete Syllabus of GATE
	FLT – 03	Complete Syllabus of GATE
	FLT – 04	Complete Syllabus of GATE
	FLT – 05	Complete Syllabus of GATE

Fee Structure of Test Series

The enrolment fee for GATE Test Series is Rs. 1500/-

How to Join in Our Online Test Series:

1. Visit online test portal http://www.physicsbyfiziks.org/
   or on our website www.physicsbyfiziks.com.
2. Download Application Form.
3. Duly filled Application form along payment receipt/ transaction number should be sent by Email on fiziks.physics@gmail.com or by registered post / courier to our address

Fiziks by Physics,
House No. 40 D, Ground Floor, Jia Sarai
Near IIT, Hauz Khas, New Delhi.-110016
Phone No. : +91 - 11 – 26865455
Mobile No. : +91-9871145498, +91 – 9560523636

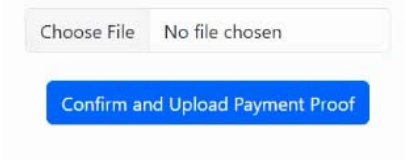
Mode of Delivery

You can get test papers and their solutions and QIP files from Google class room from your allotted batch.

Mode of Payments

1. You can pay concerned amount of money through QR Code Scanner on the payment provided on our website and portal.

2. Save payment details and upload it in the given box and then complete registration process.



3. You can also pay in cash directly at Delhi centre in Jia Sarai.