

TEST PATTERN

- 1. <u>Topic Wise Test (TWT)</u>:- There are 67 topic wise test and time duration of each test is 1:00 Hour.
- Full Length Test (FLT):-These full length tests are as per CSIR-NET Exam pattern. There are 75 questions in each. Out of 75 questions, students have to attempt 55 questions. Total time duration is 03:00 Hour. Total number of test is five.
- 3. Student can attempt more than 1700 number of questions during this test series.

Topic Wise Test (TWT) Schedule

01 Mathematical Physics			
Status	Name of Test	Topics	
	TWT-01	Vector Analysis	
	TWT-02	Dirac Delta Function	
	TWT-03	Ordinary Differential Equation	
Released	TWT-04	Linear Algebra and Matrices	
Released	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	Status Name of Test Topics		
	TWT-01	Lagrangian Formalism	
	TWT-02	Small Oscillation, Phase Curve and Stability Analysis	
Released	TWT-03	Central Force	
Released	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		
	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		
Released	TWT-03	Motion of Charged Particles in Electric and Magnetic Fields, Magnetic		
Keleaseu		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		

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TWT-06	E.M. Wave in Free Space, Dielectrics, Conductors, Reflection and Transmission	
TWT-07		
1 W 1-07	Rectangular Wave Guide, Potential Formulation for Time Varying Fields, and Radiation from Moving Charges	

04 Quantum Mechanics			
Status	Name of Test	Topics	
	TWT-01	Wave Particle Duality & Uncertainty Principle	
	TWT-02	Tools of Quantum Mechanics Part - 1	
Released	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		
	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		
Released	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		
TWT-01 Network Analysis TWT-02 Semiconductor Physics TWT-03 PN Junction Diode and their Applications Released TWT-04 Bipolar Junction Transistors, DC and AC Analysis		Network Analysis	
		Semiconductor Physics	
		PN Junction Diode and their Applications	
		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			
	TWT-01	Bohr's Theory and Sommerfeld Model		
	TWT-02	Fine Structure		
	TWT-03	L-S & J-J Coupling		
Released	TWT-04	Zeeman Effect		
Keleaseu	TWT-05	Paschen Back Effect & Hyperfine Structure		
	TWT-06	Rotational Spectroscopy		
	TWT-07	Vibrational and Raman Spectra		
	TWT-08	Laser		

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08 Solid State Physics			
Status	Name of Test	Topics	
	TWT-01	Crystal Structure	
	TWT-02	XRD and Reciprocal Lattices	
	TWT-03	Lattice Vibrations	
Released	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	
	TWT-01	General properties of nuclei	
	TWT-02	Liquid Drop Model	
	TWT-03	Shell Models and Collective Models	
Released	TWT-04	Nuclear Forces	
Keleaseu	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: 75 Questions

Part A Questions (2.0 Marks): 20 Questions

Part B Questions (3.5 Marks): 25 Questions

Part C Questions (5.0 Marks): 30 Questions

Status	Name of Test	Syllabus
	FLT - 01	Complete Syllabus of NET-JRF
	FLT - 02	Complete Syllabus of NET-JRF
Released	FLT - 03	Complete Syllabus of NET-JRF
	FLT - 04	Complete Syllabus of NET-JRF
	FLT - 05	Complete Syllabus of NET-JRF

Fee Structure of Test Series

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

How to Join in Our Online Test Series:

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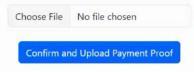
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