

TEST PATTERN

- 1. <u>Topic Wise Test (TWT)</u>:- There are 70 topic wise test and time duration of each test is 1:00 Hour.
- 2. <u>Full Length Test (FLT)</u>:-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	
Keleaseu	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				
	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	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		
Released		Force Experienced by Current Elements, Biot Savart Law and Amperes		
		Law		
	TWT-04	Magnetic Vector Potential, Magnetic Dipole, Magnetisation,		
		Magnetostatic Boundary Conditions		
TWT-05 Electromagnetic Induction, Maxwell Equations		Elecromagnetic Induction, Maxwell Equations		



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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		
TWT-01 Wave Particle Duality & Uncertainty Principle		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		
	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			
Released	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	
Released	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 CSIR-NET Test Series is Rs. 2000/-

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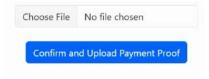
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