

### Test Pattern

- Topic Wise Test (TWT):-** There are 67 topic wise test and time duration of each test is 1:00 Hour.
- Part Wise Test (PWT):-** There are 55 questions in each test and time duration is 3:00 Hour. Total number of test is **ten**.
- 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 55 number of questions have to be attempt and time duration is 03:00 Hour. Total number of test is **five**.
- Student can attempt more than **1600** number of questions.

### 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	Fourier Transform and Laplace Transform
	TWT -07	Partial Differential Equation, Special Functions and Green Function
	TWT -08	Numerical Technique
	TWT -09	Complex Variable

02 Classical Mechanics		
Status	Name of Test	Topics
Released	TWT -01	Stability analysis and Phase Space dynamics
	TWT -02	Lagrangian Formalism
	TWT -03	Hamiltonian Formalism
	TWT -04	Central Force
	TWT -05	Rotational Dynamics
	TWT -06	Special theory of relativity

03 Electromagnetic Theory		
Status	Name of Test	Topics
Released	TWT -01	Upto Properties of Conductor
	TWT -02	Upto Boundary Condition
	TWT -03	Motion of Charged Particles to Amperes Law
	TWT -04	Magnetic Vector Potential to Magneto-static Boundary Conditions
	TWT -05	Maxwell's Equations

	TWT -06	EM waves in unbounded media and Reflection-Transmission
	TWT -07	Waveguide to Radiation from charges
	TWT -08	Electromagnetic Theory (Optics)

#### 04 Quantum Mechanics

Status	Name of Test	Topics
Released	TWT -01	Tool and Postulates
	TWT -02	Particle in Box (Free Particle)
	TWT -03	1D Harmonic Oscillator, Dirac Function and 2D, 3D in Cartesian coordinate
	TWT -04	Angular Momentum, Hydrogen Atom and Spin
	TWT -05	Approximation Method
	TWT -06	Advanced Quantum Mechanics

#### 05 Thermodynamic and Statistical Physics

Status	Name of Test	Topics
Released	TWT -01	KTG and MB
	TWT -02	1st and 2nd Law of Thermodynamics
	TWT -03	Thermodynamic Potential
	TWT -04	Statistical Mechanics
	TWT -05	Canonical Partition Function
	TWT -06	Statistical Mechanics -1
	TWT -07	Statistical Mechanics -2

#### 06 Electronics and Experimental Methods

Status	Name of Test	Topics
Released	TWT -01	Network Analysis
	TWT -02	Semiconductor Physics
	TWT -03	PN Junction diode
	TWT -04	Transistor
	TWT -05	OP-AMP
	TWT -06	Digital Electronics -1
	TWT -07	Digital Electronics – 2
	TWT -08	Experimental Methods

#### 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

### 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

### Part-Wise Test (PWT) Pattern And Schedule

Total Number of Questions for each topic: **55 Questions**

Part B Questions (3.5 Marks): **25 Questions**

Part C Questions (5.0 Marks): **30 Questions**

Status	Name of Test	Paper Name
Released	PWT – 01	Mathematical Methods of Physics
	PWT – 02	Classical Mechanics
	PWT – 03	Electromagnetic Theory
	PWT – 04	Quantum Mechanics
	PWT – 05	Thermodynamic and Statistical Physics
	PWT – 06	Electronics and Experimental Methods
	PWT – 07	Atomic & Molecular Physics
	PWT – 08	Solid State Physics
	PWT – 09	Nuclear and Particle Physics
	PWT – 10	PART – A

**Full Length Test (FLT) Pattern And Schedule**

Total Number of Questions for each topic: **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**

Date	Name of Test	Syllabus
To be announced soon	FLT – 01	Complete Syllabus of NET-JRF
To be announced soon	FLT – 02	Complete Syllabus of NET-JRF
To be announced soon	FLT – 03	Complete Syllabus of NET-JRF
To be announced soon	FLT – 04	Complete Syllabus of NET-JRF
To be announced soon	FLT – 05	Complete Syllabus of NET-JRF

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