Test Pattern

1. **Topic Wise Test (TWT):-** There are 48 topic wise test and time duration of each test is 1:00 Hour.
2. **Part Wise Test (PWT)**:- There are 60 questions in each test and time duration is 3:00Hour. Total number of part wise test is **seven**.
3. **Full Length Test (FLT)**:- These full length tests are as per IIT JAM Exam pattern and syllabus. There are 60 questions in each full length test and time duration is 03:00 Hour. Total number of full length test is **five**.
4. Student can attempt more than **1400** number of questions.

Topic Wise Test (TWT) Schedule

01 Mathematical Methods		
Status	**Name of Test**	**Topics**
Released	TWT -01	Vector Analysis
	TWT -02	Differential Equation of 1st and 2nd order
	TWT -03	Matrices
	TWT -04	Multiple Variable
	TWT -05	Complex Number
	TWT -06	Fourier Series

02 Mechanics and General Properties of Matter		
Status	**Name of Test**	**Topics**
Released	TWT -01	Stability Analysis
	TWT -02	Newton's Law
	TWT -03	Central Force
	TWT -04	Conservation of Energy & Momentum
	TWT -05	Centre of Mass & Moment of Inertia
	TWT -06	Rotational Dynamics

03 Oscillations, Waves and Optics		
Status	**Name of Test**	**Topics**
Released	TWT -01	Simple Harmonic Motions and Its Superposition
	TWT -02	Damped Harmonic Oscillations & Forced Oscillations
	TWT -03	Wave Motion, Phase & Group Velocity and Doppler Effect
	TWT -04	Interference of Light
	TWT -05	Diffraction of Light
	TWT -06	Polarisation of Light
	TWT -07	Ray Optics

04 Electricity and Magnetism		
Status	**Name of Test**	**Topics**
Released	TWT -01	Coulomb's Law To Properties of Conductor
	TWT -02	Electric Dipole To Image Problem
	TWT -03	Motion of Charged Particles To Amperes Law
	TWT -04	Magnetic Vector Potential To Magneto-static Boundary Conditions
	TWT -05	Faradays Law To Maxwell Equations
	TWT -06	EM Wave in Free Space To Reflection and Transmission
	TWT -07	DC and AC Analysis of RLC Circuit

05 Kinetic Theory, Thermodynamics		
Status	**Name of Test**	**Topics**
Released	TWT -01	Kinetic Theory of Gases
	TWT -02	First Law of Thermodynamics
	TWT -03	Second Law of Thermodynamics
	TWT -04	Maxwell Relations and Thermodynamics Potential
	TWT -05	Identical Particles and Phase Transitions
	TWT -06	Statistical Mechanics

06 Modern Physics		
Status	**Name of Test**	**Topics**
Released	TWT -01	Basic Properties of Nuclei
	TWT -02	Radioactivity and Nuclear Reaction
	TWT -03	Modern Physics
	TWT -04	Tools & Postulates of Quantum Mechanics
	TWT -05	Free Particle
	TWT -06	2D, 3D Harmonic Oscillator
	TWT -07	Special Theory of Relativity
	TWT -08	Atomic Physics

07 Solid State Physics, Device and Electronics		
Status	**Name of Test**	**Topics**
Released	TWT -01	Crystal structure
	TWT -02	XRD and Reciprocal Lattice
	TWT -03	Semiconductor Physics
	TWT -04	Network Analysis
	TWT -05	PN Junction diode
	TWT -06	Transistor
	TWT -07	OP-AMP
	TWT -08	Digital Electronics

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Topic-Wise Part Test (TPT) Pattern And Schedule

Total Number of Questions for each topic: **60 Questions**

Section A: **30 Multiple Choice Questions (MCQ)**
Q.1 – Q.10 Carry ONE Mark Each.
Q.11 – Q.30 Carry TWO Marks Each.

Section B: **10 Multiple Select Questions (MSQ)**
Q.31 – Q.40 Carry TWO Marks Each.

Section C: **20 Numerical Answer Type (NAT)**
Q.41 – Q.50 Carry ONE Mark Each.
Q.51 – Q.60 Carry TWO Marks Each.

Date	Name of Test	Paper Name
20-08-2022	PWT – 01	Mathematical Methods
27-08-2022	PWT – 02	Mechanics and General Properties of Matter
03-09-2022	PWT – 03	Oscillations, Waves and Optics
10-09-2022	PWT – 04	Electricity and Magnetism
17-09-2022	PWT – 05	Kinetic Theory, Thermodynamics
24-09-2022	PWT – 06	Modern Physics
01-10-2022	PWT – 07	Solid State Physics, Device and Electronics

Full Length Test (FLT) Pattern And Schedule

Section A: **30 Multiple Choice Questions (MCQ)**
Q.1 – Q.10 Carry ONE Mark Each.
Q.11 – Q.30 Carry TWO Marks Each.

Section B: **10 Multiple Select Questions (MSQ)**
Q.31 – Q.40 Carry TWO Marks Each.

Section C: **20 Numerical Answer Type (NAT)**
Q.41 – Q.50 Carry ONE Mark Each.
Q.51 – Q.60 Carry TWO Marks Each.

Date	Name of Test	Syllabus
08-10-2022	FLT – 01	Complete Syllabus of IIT - JAM
15-10-2022	FLT – 02	Complete Syllabus of IIT - JAM
22-10-2022	FLT – 03	Complete Syllabus of IIT - JAM
29-10-2022	FLT – 04	Complete Syllabus of IIT - JAM
05-11-2022	FLT – 05	Complete Syllabus of IIT – JAM

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