	Mathematics			
Sr No.	Topics	Sub Topics		
1		Arithmetical terms and signs		
2		Methods of multiplication and division		
3		Fractions and decimals		
4		Factors and multiples		
5	Arithmetic	Weights, measures and conversion factors		
6		Ratio and proportion		
7		Averages and percentages		
8		Areas and volumes		
9		Squares, cubes, square and cube roots		
10		Evaluating simple algebraic expressions		
11		Simple algebraic fractions		
12		BODMAS		
13		Linear equations and their solutions		
14	Algebra	Indices and powers, negative and fractional indices		
15		Simultaneous equations		
16		Second degree equations with one unknown		
17		Logarithms		
18		Simple geometrical constructions		
19		Graphical representation		
20	Geometry	Simple trigonometry		
21		Trigonometrical relationships		
22		Use of tables		
23		Rectangular and polar coordinates		
	Physics			
Sr No.	Topics	Sub Topics		
24		Nature of matter		
25		Structure of atoms		
	Matter and Atomic Structure			
26	manor and risems of asians	States: solid, liquid and gaseous		
26 27		States: solid, liquid and gaseous Changes between states		
27 28		Changes between states  Statics: Forces, moments		
27 28 29		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity		
27 28 29 30		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity		
27 28 29 30 31		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line		
27 28 29 30	Mechanics	Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)		
27 28 29 30 31 32		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)		
27 28 29 30 31 32 33		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force		
27 28 29 30 31 32 33 34		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force  Dynamics: work, power, energy (potential, kinetic and total energy)		
27 28 29 30 31 32 33 34 35		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force  Dynamics: work, power, energy (potential, kinetic and total energy)  Dynamics: Momentum, conservation of momentum		
27 28 29 30 31 32 33 34 35 36 37		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force  Dynamics: work, power, energy (potential, kinetic and total energy)  Dynamics: Momentum, conservation of momentum  Fluid Dynamics: Specific gravity and density, Viscosity		
27 28 29 30 31 32 33 34 35 36 37 38		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force  Dynamics: work, power, energy (potential, kinetic and total energy)  Dynamics: Momentum, conservation of momentum  Fluid Dynamics: Specific gravity and density, Viscosity  Fluid Dynamics: Archimede's Principle		
27 28 29 30 31 32 33 34 35 36 37 38		Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force  Dynamics: work, power, energy (potential, kinetic and total energy)  Dynamics: Momentum, conservation of momentum  Fluid Dynamics: Specific gravity and density, Viscosity  Fluid Dynamics: Archimede's Principle  Thermometers and temperature scales		
27 28 29 30 31 32 33 34 35 36 37 38 39 40	Mechanics	Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force  Dynamics: work, power, energy (potential, kinetic and total energy)  Dynamics: Momentum, conservation of momentum  Fluid Dynamics: Specific gravity and density, Viscosity  Fluid Dynamics: Archimede's Principle  Thermometers and temperature scales  Heat transfer through convection, radiation and conduction		
27 28 29 30 31 32 33 34 35 36 37 38 39	Mechanics	Changes between states  Statics: Forces, moments  Statics: Representation as vectors, Centre of gravity  Statics: Theory of stress, strain and elasticity  Kinetics: Uniform motion in a straight line  Kinetics: Motion under constant acceleration (motion under gravity)  Kinetics: Uniform circular motion (centrifugal/centripetal forces)  Dynamics: Mass, Force  Dynamics: work, power, energy (potential, kinetic and total energy)  Dynamics: Momentum, conservation of momentum  Fluid Dynamics: Specific gravity and density, Viscosity  Fluid Dynamics: Archimede's Principle  Thermometers and temperature scales		

43		Spherical mirrors	
44	Wave motion and sound	Wave motion: Mechanical waves, sinusoidal wave motion	
45		Sound: speed of sound	
46	Electrostatics and current electricity	Static electricity and distribution of electrostatic charges; Electrostatic laws of attraction and repulsion	
47		Units of charge, Coulomb's Law	
48		Conduction of electricity in solids, liquids, gases and a vacuum	
49		The following terms, their units and factors affecting them: voltage, current, resistance, conductance, charge	
<b>English</b>			
Sr No.	Topics	Sub Topics	
50		Tenses	
51		Parts of speech	
52	Grammar and Syntax	Sentence structure	
53		Punctuation	
54		Direct and Indirect Speech	
55		Synonyms and Antonyms	
56		Idioms and Phrases	
57		Word Formation	
58	Vocabulary and Word Usage	Prefixes and Suffixes	
59		Compound Words	
60		Homophones and Homonyms	
61		Contextual Vocabulary	
62	Panding Comprehension	Passage Analysis	
63	Reading Comprehension	Vocabulary in Context	
64		Analogies	
65	Verbal Beasening	Sentence Completion	
66	Verbal Reasoning	Logical Deductions	
67		Critical Reasoning	
	Cognitive domain and Analytical reasoning		
Sr No.	Topics	Sub Topics	
68	Cognitive Skills	Memory and Recall	
69	Cognitive Skills	Understanding and Comprehension	
70		Logical Analysis	
71	Analytical December	Pattern Recognition	
72	Analytical Reasoning	Problem Solving	
73		Critical Thinking	