

UNIT	TOPIC	AVERAGE QUESTIONS IN LAST 6 YEARS
ELECTROSTATICS	ELECTRIC CHARGES AND COLOUMBS LAW	5.33
	ELECTRIC FIELD AND ITS INTENSITY	9
	ELECTRIC FLUX AND GAUSS LAW	4
	ELECTRIC POTENTIAL AND POTENTIAL ENERGY	6.5
	ELECTRIC DIPOLE	3.33
CAPACITOR	CAPACITANCE AND ENERGY STORED IN CAPACITOR	3.33
	PARALLEL PLATE CAPACITOR	1.5
	COMBINATION OF CAPACITORS	3
	CAPACITORS WITH DIELECTRICS	5.66
	CAPACITOR IN CIRCUIT	3.5
	RC CIRCUIT	2
CURRENT ELECTRICITY	ELECTRIC CURRENT,CURRENT DENSITY AND DRIFT VELOCITY	2.66
	RESISTANCE AND RESTIVITY COMBINATION OF RESISTANCES	10.5
	OHMS LAW	0.66
	CELL BATTERY AND COMBINATION OF BATTERIES	6
	KIRCHHOFFS CIRCUIT LAWS	5.5
	POWER AND HEATING EFFECT OF CURRENT	6.33
	AMMETER,VOLTMETER,GALVANOMETER	7.5
	METER, WHEATSTONE BRIDGE	4.33
	POTENTIOMETER	OUT OF SYLLABUS
	COLOR CODING OF RESISTANCE	OUT OF SYLLABUS
MAGNETIC EFFECT OF CURRENT	BIOT-SAVART'S LAW AND FIELD DUE TO STRAIGHT WIRE	7
	AMPERES CIRCUIT LAW	1
	FORCE AND TORQUE DUE TO CURRENT WIRE	6
	MOTION OF A CHARGED PARTICLE INSIDE MAGNETIC FIELD	6.33
	MAGNETIC MOMENT	3.16
	MOVING COIL GALVANOMETER	0.66
MAGNETIC PROPERTIES OF MATTER	BAR MAGNET OR MAGNETIC DIPOLE	1.5
	MAGNETIC PROPERTIES OF MATTER	5
	EARTH MAGNETISM	OUT OF SYLLABUS
ELECTROMAGNETIC INDUCTION AND AC CURRENT	MAGNETIC FLUX, FARADEY'S AND LENZ LAWS	6.33
	MOTIONAL EMF AND EDDY CURRENT	5
	INDUCTANCE (SELF AND MUTUAL)	5
	AC CIRCUITS AND POWER IN AC CIRCUITS	17.5
	GROWTH AND DECAY OF CURRENT	3.16
	AC GENERATOR AND TRANSFORMER	2.16
	QUALITY FACTOR	OUT OF SYLLABUS
EM WAVES	DISPLACEMENT CURRENT AND PROPERTIES OF EM WAVES	17.16
	EM SPECTRUM	2.16
GEOMETRICAL OPTICS	REFLECTION OF LIGHT	4.16
	REFRACTION,TIRAND PRISM	10.33
	LENSES	9.33
	OPTICAL MESUREMENTS	2.33
WAVE OPTICS	HUYGENS PRINCIPLE AND INTERFERENCE OF LIGHT	11.33
	DIFFRACTION AND DOPPLER EFFECT OF LIGHT	3.33
	POLARISATION	3
ATOMS AND NUCLEI	ALPHA PARTICLE SCATTERING AND RUTHERFORD MODEL	1.66
	BOHRS MODEL AND HYDROGEN SPECTRUM	13.33
	NUCLEUS AND RADIO ACTIVITY	OUT OF SYLLABUS
	NUCLEAR FISSION AND FUSION AND BINDING ENERGY	OUT OF SYLLABUS
DUAL NATURE OF RADIATION	PHOTOELECTRIC EFFECT	10.33
	PARTICLE NATURE OF LIGHT - THE PHOTON	3
	MATTER WAVES	9.33
	DAVISSON AND GERMER EXPERIMENT	OUT OF SYLLABUS
SEMICONDUCTOR	SEMI CONDUCTOR AND P-N JUNCTION DIODE	13.16
	DIGITAL CIRCUITS	8
	TRANSISTORS	OUT OF SYLLABUS
COMMUNICATION SYSTEM TOPICS	ELEMENTS OF COMMUNICATION SYSTEM AND PROPAGATION OF EM WAVE	OUT OF SYLLABUS
	MODULATION AND DEMODULATION	OUT OF SYLLABUS

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UNITS AND MEASUREMENTS	UNIT OF PHYSICAL QUANTITIES	1.66
	DIMENSIONS OF PHYSICAL QUANTITIES	9
	ERROR IN MEASUREMENTS	6
	VERNIER CALIPERS	3.66
	SCREW GAUGE	2.33
VECTOR ALGEBRA	VECTOR ARITHMETIC	3.11
	DOT PRODUCT & CROSS PRODUCT	1.66
	VECTOR PROJECTIONS	1
MOTION IN A STRAIGHT LINE	AVERAGE AND INSTANTANEOUS SPEED, VELOCITY, ACCELERATION	3
	CONSTANT ACCELERATION, MOTION UNDER GRAVITY AND VARIABLE ACCELERATION	7.33
	GRAPH BASED AND RELATIVE MOTION	3.5
MOTION IN A PLANE	PROJECTILE MOTION	7.13
	RELATIVE MOTION IN TWO DIMENSION	2.13
	RIVER BOAT PROBLEMS	0.9
CIRCULAR MOTION	UNIFORM CIRCULAR MOTION	8
	NON UNIFORM CIRCULAR MOTION	1
LAWS OF MOTION	NEWTONS LAW OF MOTION AND EQUILIBRIUM OF A PARTICLE	8
	MOTION ON INCLINED AND CONNECTED BODIES	1.33 & 3
	SPRING FORCE AND FRICTION FORCE	0.33 & 5.16
WORK, ENERGY AND POWER	WORK	4
	ENERGY	9
	POWER	2.5
CENTER OF MASS AND COLLISION	COM FOR DISCRETE PARTICLES AND MASS DISTRIBUTION	1.66 & 1.33
	CAVITY AND MOTION OF COM	0.5 & 0.33
	IMPULSE MOMENTUM THEOREM	5.13
	COLLISION	6.71
ROTATION MOTION	MOMENT OF INERTIA	9.66
	TORQUE	5.33
	ANGULAR MOMENTUM	6
	TRANSLATIONAL + ROTATIONAL MOTION	6.66
GRAVITATION	KEPLERS LAW AND UNIVERSAL LAW OF GRAVITATION	6.5
	ACCELERATION DUE TO GRAVITY	7
	GRAVITATIONAL POTENTIAL AND POTENTIAL ENERGY	3.16
	ESCAPE SPEED AND MOTION OF SATELLITES	7
PROPERTIES OF MATTER	MECHANICAL PROPERTIES OF MATTER	11.16
	STRESS STRAIN CURVE, THERMAL STRESS AND ELASTIC PE	1.66
	PRESSURE, DENSITY, PASCAL'S LAW AND ARCHEMEDIS PRINCIPLE	5.33
	FLUID FLOW, VISCOSITY AND BERNOULLI'S PRINCIPLE	7
	SURFACE TENSION, EXCESS PRESSURE AND CAPILLARITY	7.33
	NEWTONS LAW OF COOLING	OUT OF SYLLABUS
HEAT AND THERMODYNAMICS	THERMOMETRY AND THERMAL EXPANSION	3.66
	SPECIFIC HEAT CAPACITY, CALORIMETRY AND CHANGE OF STATE	4.66
	HEAT TRANSFER	3
	ZEROth AND FIRST LAW OF THERMODYNAMICS	2.66
	THERMODYNAMIC PROCESS	10
	HEAT ENGINE, SECOND LAW OF THERMODYNAMICS AND CARNOT ENGINE	OUT OF SYLLABUS
	KINETIC THEORY OF GASES AND GAS LAWS	OUT OF SYLLABUS
	DEGREE OF FREEDOM AND LAW OF EQUIPARTITION ENERGY	OUT OF SYLLABUS
SIMPLE HARMONIC MOTION	SIMPLE HARMONIC MOTION	10.16
	SOME SYSTEMS OF EXECUTING SHM	7.5
	FORCED, DAMPED OSCILLATIONS AND RESONANCE	OUT OF SYLLABUS
WAVES	BASIC OF WAVES AND PROGRESSIVE WAVES	6.66
	SUPERPOSITION AND REFLECTION OF WAVES	5.16
	DOPPLER EFFECT	OUT OF SYLLABUS