

		1996				1997				1998				1999				2000															
		JANUARY		JUNE		JANUARY		JUNE		JANUARY		JUNE		JANUARY		JUNE		JANUARY		JUNE													
		P1	P2	P3	P4	P1	P2	P3	P4	P1	P2	P3	P4	P1	P2	P3	P4	P1	P2	P3	P4	P1	P2	P3	P4	P1	P2	P3	P4	P1	P2	P3	P4
2.3	Current-voltage relations	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.4	Ω /Resisitvity/Power	-	-	-	-	5	-	-	-	-	-	-	-	7	-	-	-	5	-	-	-	-	-	-	-	8	-	-	-	3	-	-	-
	Electric Circuits	Electric Circuits																															
2.5	Cons. energy and charge	-	-	-	-	6	-	-	-	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Internal R of power	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.6	Electric Circuits	-	-	-	-	-	-	-	-	-	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.7	LDR, Thermistor	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.8	Potential divider	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Heating matter	Heating matter																															
2.9	Heat capacity	-	-	1,3	-	-	-	1	1,3	-	-	-	1	-	-	-	1	-	-	-	2	-	-	-	-	-	-	-	-	-	-	-	-
2.10	Latent heats	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.11	Pressure Sol. Liq. Gases	-	-	2	-	-	-	-	2	-	-	-	6	-	-	2	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Kinetic Modal	Kinetic Modal																															
2.12	Ideal gas equ. $PV=nRT$	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.13	Kinetic model of Ideal	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mean square and root-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Conservation of energy	Conservation of energy																															
2.14	Internal energy	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.15	Heat \leftrightarrow Work, First Law	-	-	4	-	-	-	-	2	-	-	-	4,5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
2.16	Heat/Pump engine	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5	-	-	-	4	-	-	-	-	-	-	-	-	-	-	-	-	-
Unit-3: Practical and Topic (Solid Materials Efficiency) Test 45 minutes																																	
B1	Investigating Materials	3	2a	-	-	-	-	-	-	-	1	-	-	-	3	-	-	-	-	-	-	-	4a	1	-	-	-	-	-	-	4	-	-
B2	Engineering Materials	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes:

1. Solve all the above problems before you go to mock exam or official board exam
2. Capacitors and circular motion in old syllabus are not included in the new syllabus
3. Projectile with angle is not included in the new syllabus
4. Collision cases are all in one dimension, all cases are required
5. Pay attention to kinetic model, heat pump/engine and deep inelastic scattering for propping protons and neutrons.
6. The mock exam is comprehensive that covers all the topics in the syllabus
7. Pay attention to application on principle of moments for parallel and non-parallel forces
8. Pay attention to radioactivity and to the use of $\ln(x)$ function