

ME : MECHANICAL ENGINEERING**MODULE 5****INDEX****I. C. ENGINES**

Contents	Topics	Pg. No.
Notes	Heat Engines	1
	Comparison of SI and CI Engines	8
	Comparison of Four Stroke and Two Stroke Engines	8
	Fuels	9
	Fuel Ratings (S.I. Engines)	9
	Diesel Fuels	10
	Combustion in SI Engines	10
	Detonation or Knocking	11
	Combustion in the CI Engine	12
	Diesel Knocking	12
	Theory of Simple Carburettor	14
	Engine Performance Calculations	17
	Solved Examples	19
	List of Formulae	22
LMR (Last Minute Revision)	23	
Assignments	Assignment–1	24
	Assignment–2	26
	Assignment–3	28
	Assignment–4	30
Test Papers	Test Paper–1	32
	Test Paper–2	35
Practice Problems		37

REFRIGERATION & AIR CONDITIONING

Contents	Topics	Pg. No.
Notes	Refrigeration	46
	Refrigerant Compressors	52
	Rotary Compressors	54
	Condensers	56
	Evaporators	61
	Psychrometry	63
	Psychrometric Chart	67
	Sensible Heating	69
	Sensible Cooling	70
Assignments	Assignment–1	81
	Assignment–2	83
	Assignment–3	85
	Assignment–4	87
	Assignment–5	90
Test Papers	Test Paper–1	94
	Test Paper–2	96
Practice Problems		100

SOLUTIONS

I. C. ENGINES		
Assignment	Answer Key	103
	Model Solutions	104
Test Paper	Answer Key	108
	Model Solutions	109
Practice Problems	Answer Key	113
	Model Solutions	114
REFRIGERATION AND AIR CONDITIONING		
Assignment	Answer Key	118
	Model Solutions	120
Test Paper	Answer Key	124
	Model Solutions	125
Practice Problems	Answer Key	129