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5.load test on 4-stroke, single cylinder variable compression ratio petrol engine test rig. 6.heat balance test on 4-stroke, single cylinder diesel engine test rig

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indicated thermal efficiency (K_{ith}), Brake thermal efficiency (K_{bth}), Mechanical efficiency (K_{mech}), Specific Fuel Consumption (SFC) are determined and graphs are plotted. Maximum load on the engine (W_{max}) can be calculated as follows

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THERMAL ENGINEERING LAB I Thermal Engineering Laboratory and I.C .Engine Laboratory LIST OF EXPERIMENTS I.C ENGINE LAB AND FUELS LAB 1. Valve Timing and Port Timing Diagrams. 2. Performance Test on 4-stroke Diesel Engine. 3. Heat Balance Test on 4-stroke Diesel Engine. 4. Morse Test on Multicylinder Petrol Engine. 5.

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thermal engineering lab manual pdf ii INDEX PAGE Note: If the student fails to attend the regular lab, the experiment has to be completed in the same week. Then the manual/observation and record will be evaluated for 50% of LAB MANUAL (2015-2016)

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Users of Thermal Engineering Lab must comply with the following safety instructions. 1. Wear always pants and safety shoes when you operate any engine. Sandals are not allowed at all. 2. There should be no over-crowding. 3. Make sure that you stay away from hot exhaust lines and moving parts of engines 4.

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1. i.c engines performance test (4-stroke diesel engine 2. i.c engines heat balance 3. economical speed test (4-stroke diesel engine) 4. performance test on reciprocating air compressor ... percentage thermal efficiency. % ...

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thermal engineering lab manual iii year i sem balaji institute of technology and science department of mechanical engineering thermal engineering laboratory year: b.tech iiird yr - i sem academic year: 2015-16
list of experiments 1. i.c. engines valve / port timing diagrams. 2.

LAKNEPALLY (V), NARSAMPET (M), WARANGAL-506331 THERMAL

THERMAL ENGINEERING LAB MANUAL Acad.Year: 2013-14 MRCET DEPT. OF MECHANICAL ENGINEERING Page 2 of 85 PREFACE The primary purpose of the laboratory is to show students the experimental methods on thermal energies on various engines and demonstrate their operational procedures.

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