

Question Paper Code : 51638

B.E./B.TECH. DEGREE EXAMINATION, MAY/JUNE 2014

Fifth Semester

Mechanical Engineering

ME 2301/ME 51/ME 1351 A/10122 ME 402 — THERMAL ENGINEERING
(Regulation 2008/2010)

(Common to PTME 2301 — Thermal Engineering for B.E. (Part-Time) Mechanical
Engineering Fourth Semester — Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is an air standard efficiency?
2. Define (a) Compression ratio (b) cut off ratio.
3. What is a Carburetor? State any two functions of Carburetor.
4. Define the term Brake Power.
5. What are the effects of friction on the flow through a steam nozzle?
6. Define degree of reaction?
7. Draw the P-V diagram of a two stage reciprocating air compressor.
8. What is meant by inter cooler?
9. State the unit of Refrigeration and any two properties of good refrigerant.
10. Define RSHF, RTH.

PART B — (5 × 16 = 80 marks)

11. (a) An air-standard Diesel cycle has compression ratio of 8 and the heat transferred to the Working fluid is 1800kJ/kg. The pressure and temperature at the beginning of the compression Stroke are 1 bar and 300K respectively, Calculate (i) the pressure and temperature at Each point of the cycle, (ii) the air-standard efficiency and (iii) the mean effective pressure assume the values of C_p and R as 1.005 and 0.287.

Or

- (b) Derive an expression for air-standard efficiency of dual-combustion cycle.

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Rachel S Tattersall



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