## Power Systems Theory & Design Theoretical Otto Cycle

Final Exam Open book / notes

Wherever applicable, use methods and input values identical to that given in the class example / handouts.

Part I: Compute Wnet (KWatts), My (thermal efficiency) and s.f.c. (specific Fiel Consumption) for values, of V/Vec = 0.70 to 1.4, inclusive, in increments of 0.10% plot Wnet, My, and s.f.c. V5 V/Vec (i.e., three plots). Tabulate results also. Compression ratio in Part I is 9.0 (same as class example and HW).

Part II: For Y/Vec = 1.0, Compute What, My, & s.f.c. for compression ratios, R = 6.0 to 12.0, inclusive, in increments of 0.50; plat What, Meh, and s.f.c. Vs R (i.e., three plots). Tabulate results also.

Important: A complete assignment must include a discussion of the results.