

3.7 A combined cycle power plant has a total power output of 300 MW. The gas turbine operates with a pressure ratio of 10, air inlet temperature of 30 °C and the maximum gas temperature of 1000 °C. There is the provision for supplementary firing in which the combustion of additional fuel raises the gas temperature to 900 °C. The exhaust gas from the GT flows to a HRSG from which the gas leaves at 110 °C. In the bottoming steam plant the steam is supplied to the turbine at 80 bar, 500 °C and the condenser pressure is 0.1 bar. The calorific value of fuel burned is 43.2 MJ/kg. Neglect the effect of

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the mass flow rate of fuel on the air flow and take $c_p = 1.11$ kJ/kg K and $\gamma = 1.33$ for combustion gases and $c_p = 1.005$ kJ/kg K and $\gamma = 1.4$ for air. Neglect pump work. Determine (a) the flow rates of air and steam required, (b) the power outputs of the gas turbine and steam turbine, (c) the overall efficiency of the combined plant, and (d) the air-fuel ratio. Draw the flow and T-s diagrams.

[Ans. (a) 442.62 kg/s, 121.056 kg/s, (b) 146.47 MW, 153.53 MW,
(c) 53.5%, (d) 34.1]

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