

QUESTION 1

Compression in a compressor with $\kappa = 1.4$ is compressed in a three-stage, single-acting compressor from a pressure of 0.1 MPa and a temperature of 290 K. The compressor runs non-stop during an eight-hour shift with ideal intercooling for 5% efficiency and delivers air at 1.6 MPa.

The low-pressure stage receives 100 kg of air per minute into a cylinder whose clearance volume is 0.0546 of its swept volume. The law of compression and expansion is $p v^{1.35} = c$.

Giving all answers correct to THREE decimal places, calculate:

- | | | |
|-----|---|-------------|
| | The compressor pressure ratio and pressure in each intercooler | (5) |
| 1.2 | The low-pressure cylinder volumetric efficiency and the induced volume in cubic metres per shift | (6) |
| 1.3 | The compressor indicated power in kilowatts | (4) |
| 1.4 | Sketch a labelled pressure-volume diagram for the compressor indicating at least THREE pressure values. | (5) |
| | | [20] |

QUESTION 2

Dry saturated steam enters a convergent-divergent nozzle at 1 100 kPa at a rate of 0.75 kg/s. At the throat and exit, steam pressure is 640 kPa and 270 kPa respectively. Due to enthalpy drop, steam is 2.18% wet at the throat and 6.27% wet at the exit.

Using steam tables and giving all answers correct to THREE decimal places, calculate:

- | | | |
|-----|--|-------------|
| 2.1 | The specific enthalpy at the nozzle throat and exit | (5) |
| 2.2 | The velocity of steam at the nozzle throat and exit in m/s | (5) |
| 2.3 | The specific volume of steam at the nozzle throat and exit | (5) |
| 2.4 | The area in square millimetres at the throat and exit | (5) |
| | | [20] |

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