

Important Questions

Steam

Formation of steam at constant pressure

Types

Numericals

Some definitions

Boilers

Lancashire, Babcock and Wilcox

Mountings and Accessories

Steam Turbines

De Laval's and Parson's

Water Turbines

Classification(3 types)

Internal Combustion (IC) Engines

4 Stroke Petrol and Diesel

2 Stroke Petrol

Numericals

Refrigeration

VAR and VCR

Lathe

Diagram, Operations

Drilling machine

Types(Sketch and some explanation) Operations(Diagrams are important too)

Computer Numerical Control(CNC)

Components

Open and Closed Loop

Advantages and Disadvantages

Robotics

Configuration(with 2D sketches)

Advantages and Disadvantages

Joining Process

Soldering

Methods, Applications

Brazing

Applications

Welding

Arc Welding and Gas Welding

Comparison between the all Joining processes(mostly not asked in the exams)

Power Transmission

Belt Drives and Gear Drives

Derivation of Open Belt and Cross Belt

Pulleys

Numericals

Advantages and Disadvantages of Gear Drives and Belt Drives

Velocity ratio derivation

Simple gear train and Compound gear train

Credits: Sindhu CA, F SEC