

Unit - 1

- Q1. Engine (Numerical) (Performance parameters)
- Q2. Turbine (De-leva / Francis)
- Q3. EV / Hybrid vehicles Architecture (or)
Block diagram
- Q4. Fridge / AC working

Unit - 2

- Q1. Stress - Strain Curve (Mild Steel / Aluminium)
- Q2. Smart Materials (Read all other engg. materials if possible)
- Q3. Hooke's Law Numericals
- Q4. Power Transmission Numericals

Unit - 3

- Q1. Pattern Allowances / Types of Patterns
 - Q2. Welding (Electric Arc / Gas / Types of Flames)
 - Q3. Sand Casting Procedure
 - Q4. Casting Defects
 - Q5. Extrusion / Soldering / Threads / Rivets
 - Q6. Centrifugal Casting / Precision Investment Casting
 - Q7. Forming (HW & CW) / Rolling / Forging / Brazing / Wire Drawing / Sheet Metal / Joining
- High Priority
- Low Priority
- This is Ul. imp.

Unit - 4

- Q1. Milling
- Q2. Types of Joints
- Q3. Control Systems (Open & Closed Loop) / Industry 4.0
- Q4. Lathe Operations / Taper Turning / Drilling