



HAL Study Plan 2022

Subject Name	Questions
Non-Tech	60
Discipline of Engineering	100
Total	160

Quiz Plan

Daily Non-Tech Quiz from Monday to Saturday.

All India Full Length Mock test

20th March 2022 (Sunday)

27th March 2022 (Sunday)

3rd April 2022 (Sunday)

Mechanical Engineering Quiz Plan

Title	Topics Covered	Date
Thermo Quiz 1	Thermodynamic systems and processes, behavior of ideal and real gases	14 th March 2022
Thermo Quiz 2	properties of pure substances zeroth and first laws of thermodynamics, second law of thermodynamics	15 th March 2022
Thermo Quiz 3	calculation of work and heat in various processes availability and irreversibility, thermodynamic relations.	16 th March 2022
FM Quiz 1	Fluid properties, fluid statics, forces on submerged bodies, stability of floating bodies	17 th March 2022
FM Quiz 2	Fluid Kinematics, Fluid Dynamics	18 th March 2022
FM Quiz 3	BLT, Laminar Turb Flow, dimensional analysis	19 th March 2022
	ALL INDIA MOCK TEST 1	20 th March 2022
FM Quiz 4	Fluid Machines	21 st March 2022
Production Quiz 1	Material Science, Welding, Casting, Forming	22 nd March 2022
Production Quiz 2	Metrology and Inspection, Non-conventional Machining	23 rd March 2022

Title	Topics Covered	Date
Production Quiz 3	Metal Cutting and Machine tool operation	24 th March 2022
TOM Quiz 1	Displacement, velocity and acceleration analysis of plane mechanisms, dynamic analysis of linkages, cams	25 th March 2022
TOM Quiz 2	gears and gear trains, flywheels and governors	26 th March 2022
	ALL INDIA MOCK TEST 2	27 th March 2022
TOM Quiz 3	balancing of reciprocating and rotating masses, gyroscope.	28 th March 2022
SOM Quiz 1	Stress and strain, elastic constants, Poisson's ratio, Mohr's circle for plane stress and plane strain, thin cylinders	29 th March 2022
SOM Quiz 2	shear force and bending moment diagrams, bending and shear stresses, deflection of beams, torsion of circular shafts, Euler's theory of columns, energy methods	30 th March 2022
HT Quiz 1	Conduction and Fins, Convection	31 st March 2022
HT Quiz 2	Radiation, HE and Unsteady State	1 st April 2022
Engineering Mechanics Quiz	Full Subject	2 nd April 2022
	ALL INDIA MOCK TEST 3	3 rd April 2022
Industrial Engineering Quiz 1	Inventory and BEA, Forecasting models, aggregate production planning, scheduling, materials requirement planning; lean manufacturing.	4 th April 2022
Industrial Engineering Quiz 2	Linear programming, simplex method, transportation, assignment, network flow models, simple queuing models, PERT and CPM	5 th April 2022
Power Plant, RAC and IC Engine Quiz		6 th April 2022