

polytechnic academy.

power generation.

Reshon Sir.

unit-1 (very important unit)

- ① Draw the block diagram of thermal power plant. (lect-3)
- ② write down the difference between fire tube & water tube boiler. (lect-5)
- ③ write down the site selection for thermal power plant. (lect-2)
- ④ define turbine & write the difference between impulse & reaction turbine (lect-09)
- ⑤ write the working & construction of nuclear power plant (lect-6, Introduction)
- ⑥ write down the disposal of nuclear waste & nuclear shielding (nuclear reactor)
- ⑦ Draw the block diagram (or layout) of diesel power plant. (lect-12)
- ⑧ write the working principle of 4-stroke diesel engine (lect-16)
- ⑨ write down the difference between 2 stroke & 4-stroke engine. (lect-19)
- ⑩ Explain various sources of energy (lect-3) Introduction

unit-2 (very important unit).

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- ① write down the classification of hydro power plant. (unit-2, lect-03)
- ② write down the construction of hydro power plant - (unit-2 lect-04)

- ③ Explain the construction & working of -
(a) pelton turbine
(b) francis turbine
(c) kaplan turbine. (Lect-7)
- ④ List the hydro-power plant in Bihar (Lect-05)

unit-03

- ① Explain How solar energy is converted into electrical energy. (Lect-02 (Introduction))
- ② Describe solar photovoltaic (PV) power plant. (unit-3 Lect-2)
- ③ Explain Biomass power plant & also block diagram.
- ④ Draw the layout of an agrochemical based power plant.

unit-04

- ① Explain, how wind energy is converted into electrical energy (Lect 04. Introduction)
- ② Define wind power density, lift & Drag principle.
- ③ Advantage of wind power plant.

unit-05

- ① write down the types of wind turbine
- ② write down the types of tower used in wind turbine.

unit-6 (very important unit)

- ① Define base load, peak load & load curve
- ② Define maximum demand, Demand factor & average demand + Numerical. Lect-2
- ③ Explain Lect-4
 - ① connected load
 - ② cold reserve
 - ③ firm power Lect-3
 - ④ Hot reserve
- ④ Explain -
 - ① plant capacity factor
 - ② diversity factor
 - ③ plant use factor & load factor (Lect-15)
 - ④ utilization factor
- ⑤ Define load curve, load duration curve, integrated duration curve (Lect-06)
- ⑥ Numericals on above formula.
- ⑦ Explain Grid system.

All the best.