

Probable & Guessed Question :-

Power Generation :-

U-1 (v.v.I) :-

1. Draw the block diagram of thermal power plant.
2. Write down the difference b/w fire tube and water tube boiler.
3. Write down the site selection of thermal power plant.
4. Working and construction of thermal power plant.
5. Name the T.P.P in Bihar and in India with capacity.
6. Working and construction of nuclear power plant.
7. Write down the disposal of nuclear waste and nuclear shielding (nuclear reactor).
8. Block diagram of diesel power plant.
9. Working principle of 4-stroke diesel engine.
10. D/B 2 stroke & 4 stroke diesel engine.
11. Explain various sources of energy.

U-2 :-

1. Write down the classification of hydro power plant.
2. Write down the construction of hydro power plant.
3. Define turbine and d/b impulse and reaction turbine.
4. Explain the construction and working of :-
 - a. Pelton turbine
 - b. Francis turbine
 - c. Kaplan turbine
5. List of H.P.P in Bihar.

U-3 :- & U-4

1. Explain how solar energy converted into electrical energy. (U-3)
2. Define wind power plant density, lift and drag principle. (U-4)
3. Explain biomass power plant and block diagram. (U-3)
4. Draw the layout of agro-based power plant. (U-3)
5. Describe solar photo voltaic (PV) Power plant. (U-3)
6. Explain how wind energy converted into electrical energy. (U-4)
7. Advantages / Disadvantages of wind power plant

U-5:

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

U-6 (V.V.I):

1. Define: (a) Base load (b) Peak load (c) load curve

2. Define: (a) Maximum demand
(b) Demand factor
(c) Average demand

Numericals

3. Explain: (A) connected load

(B) cold and hot reserve

(C) Firm power

(D) Plant capacity factor

(E) Diversity factor

(F) Plant use factor

(G) Load factor

(H) Utilization factor

(I) Load duration curve

(J) Integrated duration curve.

4. Explain Grid system.

5. Numericals on above formula.

All the best: