

### UNIT-1 IMPORTANT QUESTION

- ① Draw and Explain the Schematic block diagram of Thermal Power plant
- ② Draw and explain the Schematic block diagram of gas power plant
- ③ Draw block diagram of Diesel power plant and discuss its operation
- ④ Draw block diagram and explain working Nuclear Power station

### UNIT-2 IMPORTANT QUESTION

- ① Explain the layout and component of large hydro power plant with neat sketch.
- ② Give Classification of hydropower station and explain brief.
- ③ What are the various type of turbine used in hydropower plant?

### UNIT-3 IMPORTANT QUESTION

- ① Explain Construction and working of photo cell voltaic cell .
- ② Explain the type of photovoltaic power plant .
- ③ What is Solar collector? State its type and uses ,
- ④ Explain Concentrating Collector with neat sketch.
- ⑤ Draw Schematic diagram of Solar Power plant and how Electricity generated.
- ⑥ Explain Biogas plant with its component and neat Sketch.
- ⑦ Draw the Schematic layout for biochemical based plant?

#### UNIT-4 IMPORTANT QUESTION

- ① Explain the construction and working of geared wind power plant with sketch.
- ② With block diagram and component, explain wind Energy conversion.
- ③ Explain vertical axis wind turbine with neat sketch.
- ④ Explain SCIG, WRIG, DFIG, PMSG.
- ⑤ Derive the expression for power output of wind turbine.

UNIT-5

I.E.P.G I.Q

- ① Differentiate between HAWT and VAWT?
- ② Explain various type of tower used in Small wind turbine?

UNIT-6

- ① Explain load curve, load duration curve and integrated load duration curve.
- ② Explain various factor affecting the cost of generation?
- ③ State the criteria for choice of size and no. of generator unit in G.S.
- ④ Discuss the advantage of interconnected grid system.
- ⑤ Explain grid system fault, blackout & Brownout.