

Question Bank Unit Test 2 (PPE)

Unit 3. Gas Power Plant Waste Heat Recovery

2 Marks Question

- a) Draw neat Sketch Of Close cycle Gas Turbine Power Plant.
- b) State any Four Component of Gas turbine power plant.
- c) List different method to improve thermal efficiency of Gas turbine power plant.
- d) State advantages of Gas turbine power plant.
- e) Define term Waste heat recovery,
- f) State Four slandered practices of Waste heat recovery in thermal power plant

4 Marks Question

- a) Explain with neat sketch Close cycle Gas Turbine Power Plant.
- b) Explain with neat sketch Combustion chamber.
- c) Explain the neat sketch Intercooling method use to improve thermal efficiency.
- d) Explain working principal of Co-generation with neat sketch.
- e) Explain need of Co-generation with suitable example.
- f) Explain the term Trigeneneration .
- g) Enlist the application of Co-generation power plant.

Unit 4. Nuclear Power Plant

2 Marks Question

- a) Draw general arrangement of Nuclear power plant.
- b) List any four point considered in site selection of nuclear power plant.
- c) List properties of Nuclear fuel.
- d) List different types of Nuclear fuel.
- e) Draw neat diagram of Boiling water reactor(BWR).

4 Marks Question

- a) Explain with neat sketch operating principal of Nuclear power plant.
- b) State advantages and disadvantages of Nuclear power plant.
- c) State classification of Nuclear power plant.
- d) Explain with neat sketch Pressurized water reactor.
- e) State different safety Practices used in Nuclear power plant.

Unit 5. Recent trends and Economic Analysis of Power Plants.

2 Marks Question

- a) Define Captive power plant.
- b) State components of National mission for enhanced energy efficiency(NMEEE).
- c) Define load factor.
- d) Define Average load and peak load.

4 Marks Question

- a) What is perform Achieve And Trade scheme under NMEEE.
- b) Explain Market Transformation for Energy Efficiency(MTEE).
- c) Define Plant capacity factor and plant use factor.
- d) Explain fixed cost and running cost of a power station.
- e) Explain i) Demand factor ii) Connected load.