

- Q.25 Explain the significance of water pre-heater and air pre-heater.
- Q.26 Explain coal handling and ash handling system in thermal power plants.
- Q.27 Tell the classification of nuclear reactors. Explain any one.
- Q.28 Explain the different types of turbine used in hydro electric power plant.
- Q.29 Explain the base load and peak load power plant.
- Q.30 Define load factor. How it effects the cost of generation
- Q.31 Explain the concept of water tube boiler.
- Q.32 Explain the concept of regional grid.
- Q.33 Give the classifications of hydraulic turbines.
- Q.34 Explain why hydroelectric power plants are known as multipurpose plants?
- Q.35 List the various factors that affect the cost of electric power generation.

SECTION-D

Note: Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain the comparison of all power plants.
- Q.37 Draw layout of nuclear power plant & Explain each part of it in detail.
- Q.38 Explain the Working of Thermal Power Plant with a block diagram.

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Power Station Engineering **Subject:- Electric Power Stations**

Time : 3Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 The controls rods in the control system of nuclear reactors are used to
- Absorb excess neutrons
 - Control fuel consumption
 - Control temperature
 - All of these
- Q.2 The Cheapest power plant in operation and maintenance is
- Nuclear power plant
 - Hydroelectric power plant
 - Diesel power plant
 - Thermal power plant
- Q.3 Diversity factor value is
- Always less than 1
 - always greater than 1
 - Unity
 - None of these
- Q.4 Penstock is used in
- Thermal power plant

SECTION-B

Note: Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 The ratio of average load to maximum load is known as _____ factor.

Q.12 1 ev = _____

Q.13 Graph of variation of load on a plant w.r.t time is called _____

Q.14 _____ power plant is free from environmental pollution problem.

Q.15 One fusion of U causes a release of _____ Mev of energy.

Q.16 Electron volt is the unit of _____.

Q.17 Capacity factor is _____ than one.

Q.18 Area under the load curve gives the total energy generated(T/F)

Q.19 Pulverization of coal is currently the favored method of preparing coal for burning (T/F)

Q.20 Cost of Fuel comes under the running charges (T/F)

SECTION-C

Note: Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Explain two part tariff and Flat rate tariff.
 - Q.22 Explain nuclear chain reactions.
 - Q.23 Differentiate conventional and Non conventional energy sources.
 - Q.24 What are the factors to be considered for the selection of nuclear power plant.