

ME6701/ME8792 – POWER PLANT ENGINEERING 2 MARKS - QUESTION BANK

UNIT 1: COAL BASED THERMAL POWR PLANTS

1. Write about out-plant handling?

Out plant handling includes the handling of coalmine to the thermal power plant. These handlings are outside the plant in the following ways. Transportation by sea (or) river, Transportation by rail, Transportation by road, Transportation of coal by pipeline.

2. Write about inplant handling of-coal?

In order to handle large quantity of coal inside the plant, some mechanical handling systems are provided for smooth, easy and better controlled operation. The inplant coal handling is divided, into following categories.

3. Why the preparation of coal is necessary?

The coal from coal mines cannot be directly fed into the furnace. Proper preparation of coal should be done before feeding the coal to the furnace. In the coal preparation, the coal passes through the different equipments like

1. Crushers
2. Sizers
3. Driers and Magnetic Separators.

4. Name the different types of coal transforming equipments?

1. Belt conveyors
2. Screw conveyors
3. Bucket elevators
4. Grab bucket elevators
5. Skip hoists
6. Flight conveyors.

The coal transfer starts by carrying of coal from-unloading point to the storage site.

5. Write about screw conveyor and bucket conveyors?

In screw conveyor, an endless helicoid screw is fitted to the shaft. On one end of the shaft, the driving mechanism is fitted and the other end of the shaft is supported on a ball bearing. While the screw is rotating, the coal is transferred from one end to the other end.

Bucket conveyors are used as vertical lifts. The coal is loaded at the bottom and unloaded at the top in the bucket conveyors.

6. Define draught, what is the use of draught in thermal power plants?

Draught is defined as a small pressure difference required between the fuel bed (furnace) and outside air to maintain constant flow of air and to discharge the gases through chimney to the

Power Quality Engineering Question Bank

C. Sankaran



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Power Quality C. Sankaran, 2017-12-19 Frequency disturbances transients grounding interference the issues related to power quality are many and solutions to power quality problems can be complex However by combining theory and practice to develop a qualitative analysis of power quality the issues become relatively straightforward and one can begin to find solutions to power quality problems confronted in the real world Power Quality builds the foundation designers engineers and technicians need to survive in the current power system environment It treats power system theory and power quality principles as interdependent entities and balances these with a wealth of practical examples and data drawn from the author's 30 years of experience in the design testing and trouble shooting of power systems It compares different power quality measurement instruments and details ways to correctly interpret power quality data It also presents alternative solutions to power quality problems and compares them for feasibility and economic viability Power quality problems can have serious consequences from loss of productivity to loss of life but they can be easily prevented You simply need a good understanding of electrical power quality and its impact on the performance of power systems By changing the domain of power quality from one of theory to one of practice this book imparts that understanding and will develop your ability to effectively measure test and resolve power quality problems *Signal Processing of Power Quality Disturbances* Math H. J.

Bollen, Irene Y. H. Gu, 2006-12-13 Bridging the gap between power quality and signal processing This innovative new text brings together two leading experts one from signal processing and the other from power quality Combining their fields of expertise they set forth and investigate various types of power quality disturbances how measurements of these disturbances are processed and interpreted and finally the use and interpretation of power quality standards documents As a practical aid to readers the authors make a clear distinction between two types of power quality disturbances Variations disturbances that are continuously present Events disturbances that occur occasionally A complete analysis and full set of tools are provided for each type of disturbance Detailed examination of the origin of the disturbance Signal processing measurement techniques including advanced techniques and those techniques set forth in standards documents Interpretation and analysis of measurement data Methods for further processing the features extracted from the signal processing into site and system indices The depth of coverage is outstanding the authors present and analyze material that is not covered in the standards nor found in the scientific literature This text is intended for two groups of readers students and researchers in power engineering who need to use signal processing techniques for power system applications and students and researchers in signal processing who need to perform power system disturbance analyses and diagnostics It is also highly recommended for any engineer or utility professional involved in power quality monitoring **NHPC Exam PDF-National Hydroelectric Power Corporation Junior Engineer (Civil) Exam PDF eBook** Chandresh Agrawal, nandini books, 2025-03-07 SGN The Book NHPC National Hydroelectric Power Corporation Junior Engineer Civil Exam Covers Civil Engineering Objective

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Rupani,2025-07-12 Targeted exam ready preparation for ICSE Geography Class 10 Designed by Sir Tarun Rupani this One shot Question Bank is a comprehensive revision guide for ICSE Class 10 Geography aligned strictly with the latest 2025 26 board syllabus The book offers a quick and effective way to revise chapters understand map work and practice ICSE style questions confidently Key Features Updated as per ICSE 2025 26 Syllabus Complete and focused coverage of all Geography chapters including climate soils industries transport and more One shot Format Each chapter includes quick concept summaries definitions diagrams and important terms for fast recall All Question Types Included Covers short answers structured questions and diagram map based questions Chapterwise PYQs Includes previous year ICSE questions for each chapter to familiarise students with real exam trends Solved Answers in ICSE Format Stepwise solutions written with precision and proper terminology as per board expectations Bonus Map Practice Section Focused practice for India map work locations rivers industries and more Why Choose This Book This Geography One shot by Sir Tarun Rupani is a trusted tool for quick revision solid practice and full syllabus mastery tailored to help students score better in less time A must have for ICSE Class 10 students preparing for the 2026 board exam **BSPHCL Exam PDF- Bihar State Power Holding**

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