

## **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

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