

**NETTUR TECHNICAL TRAINING FOUNDATION**  
**DIPLOMA IN ELECTRICAL & ELECTRONICS – CP23**  
**IV SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JULY 2023**

**Subject: Power Engineering**  
**Subject Code: CP23403T**

**Total Time: 2 Hr.**  
**Total Marks: 50**

**PART B**

**1.0 ANSWER ANY EIGHT OF THE FOLLOWING** **2\*8=16**

- 1.1 Name the different parameters to select site for thermal power plant
- 1.2 Discuss the term deaeration process in water treatment
- 1.3 State the function of penstock in hydro plant
- 1.4 Name the types of hydro turbine.
- 1.5 How are water turbines mounted?
- 1.6 Name the byproducts of chain reaction
- 1.7 Discuss the term coolant in nuclear reactor
- 1.8 Write the functions of Lubrication.
- 1.9 Name the types of tidal power plants.
- 1.10 What are the different equipment's used in substation?

**2.0 ANSWER ANY SIX OF THE FOLLOWING** **3\*6=18**

- 2.1 Draw the block diagram of thermal power plant.
- 2.2 Give the difference between storage and pondage
- 2.3 Draw the labeled diagram of nuclear reactor.
- 2.4 Name the different methods to increase the efficiency of diesel plant.
- 2.5 What are the components of a photovoltaic (PV) system?
- 2.6 Draw the block diagram of transmission system.
- 2.7 Briefly explain the term HVDC transmission system.
- 2.8 State the functions of a) Exhaust system b) Cooling system

**3.0 ANSWER ANY FOUR OF THE FOLLOWING** **4\*4=16**

- 3.1 Name the different methods for water treatment? Explain any two methods.
- 3.2 State the function of a) control rod                      b) moderator
- 3.3 Briefly explain the working of MHD plants.
- 3.4 State the term a) skin effect                              b) corona loss
- 3.5 Briefly explain the working of gas turbine power plant with neat diagram.
- 3.6 Discuss the different ways of classifying the substation.

