



C09-AEI-606 B

3720

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2014

DAEI—SIXTH SEMESTER EXAMINATION

POWER PLANT INSTRUMENTATION

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

1. Classify the power generation methods.
2. List the types of dryer.
3. Write about leaching process.
4. Draw the block diagram of boiler process.
5. List the mechanical parameters to be monitored using turbine supervisory system.
6. Describe turbine trip condition.
7. List the types of pump.
8. Draw the diagram of condenser.
9. Write about FD fan.
10. Write about conveyer belt.

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PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

11. Draw a general layout of a thermal power plant and explain the working of different circuits.
12. List different types of crusher and explain the working of any one crusher.
13. Explain the working principle of flash distillation process.
14. Explain combustion control of main header pressure.
15. Explain feedback regulation drum level control.
16. Explain the turbine supervisory system for monitoring speed and vibration.
17. (a) Why is generator cooling necessary? 5
(b) Explain hydrogen charging and discharging system. 5
18. Explain electrostatic precipitator operation with diagrams.

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