



C09-AEI-606B

3720

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2017

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.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. Classify the types of power generation.
2. Define humidification and dehumidification.
3. List the mechanisms involved in size reduction.
4. State the measurement of flow of feed water.
5. State the measurement of eccentricity.
6. State turbine trip conditions.
7. State the need of generator cooling system.

- * 8. List the different types of compressors.
9. State the need of soot blower.
10. List the applications of belt conveyor.

PART—B

10×5=50

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

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

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain the importance of instrumentation in power plant.
12. Explain the construction and working principle of continuous distillation column with legible diagram.
13. Explain the operation of any two types of dryers with necessary diagrams.
14. Explain the basic building blocks of Boiler process in thermal power plant.
15. Explain main heat steam temperature controls of boiler.
16. Explain gland steam exhaust pressure control of turbine.
17. Explain any two types of condenser controls with diagram.
18. Explain about water treatment plant in power plant.
