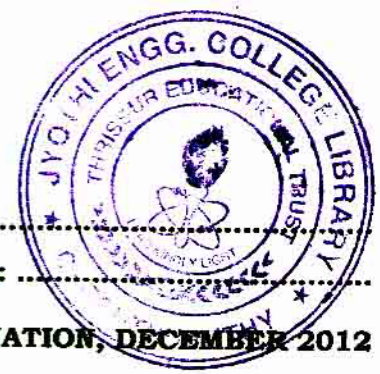


32081

Name :
Reg. No:



EIGHTH SEMESTER B.TECH (ENGINEERING) DEGREE EXAMINATION, DECEMBER 2012

**AI 04 805 (F) – POWER PLANT INSTRUMENTATION AND CONTROL
(2004 Admissions)**

Time : Three Hours

Maximum : 100 Marks

PART – A

Answer all questions.

- I
- (a) Discuss briefly a method of governing of steam turbines.
 - (b) Explain the effect of air fuel ratio on Boiler heat losses.
 - (c) What is a spillway? Explain the types of spillways.
 - (d) Explain the steam pressure control system with a schematic diagram.
 - (e) Explain the measurement of electric resistance.
 - (f) What is a moderator? Name common moderators and discuss their advantages and limitations.
 - (g) Describe Primary air system of a steam power plant.
 - (h) Write short notes on cyclone dust collector.

(8 x 5 = 40 Marks)

PART – B

- II
- (a) Describe with a neat sketch the basic steam temperature control system.
(Or)
 - (b) Explain in detail objectives and classifications of Interlocking systems.
- III
- (a) Describe Orsat apparatus used for flue gas analysis.
(Or)
 - (b) Describe in detail the oxygen meter.
- IV
- (a) Explain the methods used for detecting nuclear radiation.
(Or)
 - (b) Describe PLC method of power plant automation.
- V
- (a) Explain in detail the instruments used for measuring p-H values?
(Or)
 - (b) Explain the various types of pressure measurement devices.

(4 x 15 = 60 Marks)
