

Code :R7411005

**R7**

**IV B.Tech I Semester(R07) Supplementary Examinations, May/June 2011**  
**POWER PLANT INSTRUMENTATION**  
**(Electronics & Instrumentation Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE questions**  
**All questions carry equal marks**

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1. (a) Write about the importance of instrumentation for generation.  
(b) Explain the details of PI diagram of boiler.
2. (a) Explain the frequency power factor measurement.  
(b) Explain about trivector meter.
3. (a) Explain any one of the non-electrical parameter measurement.  
(b) Explain about dust monitor.
4. Write short notes on:
  - (a) Furnace draft and excessive air control.
  - (b) Drum level main control.
5. (a) Explain about hot well level control.  
(b) Explain the BFP recirculation control.
6. (a) Explain the principle and operation of gland stream exhaust pressure control.  
(b) Write short notes on:
  - i. Speed monitoring and control.
  - ii. Shell temperature monitoring and control.
7. Explain any two thermal conductive type analyzer.
8. (a) Explain in detail about the principle and operation of a  $P^H$  meter.  
(b) Write about fuel analyzer.

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