

Code No: R05411005

R05

Set No. 2

IV B.Tech I Semester Examinations, November 2010

POWER PLANT INSTRUMENTATION

**Common to Instrumentation And Control Engineering, Electronics And
Instrumentation Engineering**

Time: 3 hours

Max Marks: 80

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

1. Explain in detail with neat sketches excess air control system used in power plants? [16]
2. Explain briefly different types of Non-conventional sources of energy. [16]
3. What is the role and importance of a Generator in turbine monitoring and control with schematic representation? [16]
4. Explain in detail with neat sketches Hotwell and Deaerator level column control systems used in power plants? [16]
5. Explain Spectrum analyzer with respect to Infrared type analyzer in detail with neat sketches? [16]
6. Write short notes on the following :
 - (a) Heterodyne method of measuring frequency.
 - (b) Current Transformer. [16]
7. Explain in detail with neat sketches super heater control system used in power plants. [16]
8. What is Chromatography? Differentiate between the liquid and gas chromatography with neat sketch? [16]

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R05**Set No. 4****IV B.Tech I Semester Examinations, November 2010****POWER PLANT INSTRUMENTATION****Common to Instrumentation And Control Engineering, Electronics And
Instrumentation Engineering****Time: 3 hours****Max Marks: 80****Answer any FIVE Questions
All Questions carry equal marks**

1. Explain in detail with neat sketches Hotwell and Deaerator level column control systems used in power plants? [16]
2. What is Chromatography? Differentiate between the liquid and gas chromatography with neat sketch? [16]
3. Write short notes on the following :
 - (a) Heterodyne method of measuring frequency.
 - (b) Current Transformer. [16]
4. Explain in detail with neat sketches super heater control system used in power plants. [16]
5. Explain briefly different types of Non-conventional sources of energy. [16]
6. Explain Spectrum analyzer with respect to Infrared type analyzer in detail with neat sketches? [16]
7. Explain in detail with neat sketches excess air control system used in power plants? [16]
8. What is the role and importance of a Generator in turbine monitoring and control with schematic representation? [16]

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Set No. 1

IV B.Tech I Semester Examinations, November 2010

POWER PLANT INSTRUMENTATION

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Time: 3 hours

Max Marks: 80

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1. Explain in detail with neat sketches super heater control system used in power plants. [16]
2. Explain in detail with neat sketches excess air control system used in power plants? [16]
3. Write short notes on the following :
 - (a) Heterodyne method of measuring frequency.
 - (b) Current Transformer. [16]
4. Explain in detail with neat sketches Hotwell and Deaerator level column control systems used in power plants? [16]
5. What is the role and importance of a Generator in turbine monitoring and control with schematic representation? [16]
6. Explain briefly different types of Non-conventional sources of energy. [16]
7. Explain Spectrum analyzer with respect to Infrared type analyzer in detail with neat sketches? [16]
8. What is Chromatography? Differentiate between the liquid and gas chromatography with neat sketch? [16]

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R05

Set No. 3

IV B.Tech I Semester Examinations, November 2010

POWER PLANT INSTRUMENTATION

**Common to Instrumentation And Control Engineering, Electronics And
Instrumentation Engineering**

Time: 3 hours

Max Marks: 80

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

1. Explain in detail with neat sketches super heater control system used in power plants. [16]
2. Explain briefly different types of Non-conventional sources of energy. [16]
3. What is Chromatography? Differentiate between the liquid and gas chromatography with neat sketch? [16]
4. Explain in detail with neat sketches Hotwell and Deaerator level column control systems used in power plants? [16]
5. What is the role and importance of a Generator in turbine monitoring and control with schematic representation? [16]
6. Explain in detail with neat sketches excess air control system used in power plants? [16]
7. Write short notes on the following :
 - (a) Heterodyne method of measuring frequency.
 - (b) Current Transformer. [16]
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