

IV B.Tech I Semester Supplementary Examinations, November 2005
POWER PLANT INSTRUMENTATION
(Electronics & Instrumentation Engineering)

Time: 3 hours

Max Marks: 80

Answer any FIVE Questions
All Questions carry equal marks

1. Explain the wind energy conversion system. [16]
2. Explain the role of radiation detectors in nuclear power plants. [16]
3. Describe one wattmeter method of measuring 3 phase reactive power with a neat diagram. Assuming balanced load condition, draw the phasor diagram. [16]
4. What is a slack diagram? Describe the principle and operation with a neat diagram. How it is used in draft measurement? [16]
5. Explain in detail with neat sketches pulverizer control system used in power plants? [16]
6. Explain in detail with neat sketches super heater control system used in power plants? [16]
7. How the performance of turbine is monitored . Explain. [16]
8. Write brief notes on water pollution monitoring instruments. Also discuss about types of pollutants. [16]
