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**SIDDHARTH INSTITUTE OF ENGINEERING & TECHNOLOGY:: PUTTUR
(AUTONOMOUS)****M.Tech I Year II Semester (R16) Regular Examinations May/June 2017****POWER PLANT INSTRUMENTATION****(CONTROL SYSTEMS)****(For Students admitted in 2016 only)**Time: **3 hours**Max. Marks: **60****(Answer all Five Units 5 X 12 =60 Marks)****UNIT-I**

- 1 Briefly explain about survey of methods of power generation in Solar and Wind power plant in detail. 12M

OR

- 2 With neat diagrams briefly explain building blocks of thermal power plant 12M

UNIT-II

- 3 Write briefly about (a) Voltage Measurement (b) Current Measurement 12M

OR

- 4 a. Describe about flow measurements involved in power plants. 6M
b. Explain in detail about steam temperature measurement. 6M

UNIT-III

- 5 Describe various methods of controlling reheated steam temperature in detail. 12M

OR

- 6 a. Explain the principle of operation of super heater in Boiler. 6M
b. Write a short note on pulverizer control scheme 6M

UNIT-IV

- 7 Explain the shell temperature monitoring and control in detail 12M

OR

- 8 Describe in detail about the gland steam exhaust pressure control. 12M

UNIT-V

- 9 Briefly explain about survey of pollution monitoring and control equipment. 12M

OR

- 10 Explain about (a) Dissolved oxygen analyzer
(b) Flue gas oxygen analyzer 12M

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