SATHYABAMA UNIVERSITY

(Established under section 3 of UGC Act, 1956)

Course & Branch: B.E – EEE	
Title of the paper: Instrumentation Systems	
Semester: V	Max.Marks: 80
Sub.Code: 414503	Time: 3 Hours
Date: 27-04-2009	Session: AN

PART – A Answer All the Questions

(10 x 2 = 20)

- 1. Define Accuracy and Precision.
- 2. What is zero of the system?
- 3. What is Piezo electric effect?
- 4. Explain the principle of strain gauge.
- 5. Define VCO.
- 6. What are charge amplifiers?
- 7. Define Telemetry.
- 8. Explain the principle of phase modulation.
- 9. What are Nixie tubes?
- 10. Define Alpha numeric display.

PART – B

$(5 \times 12 = 60)$

Answer All the Questions

11. Explain the functional elements of measurement system with suitable block diagram.

(or)

- 12. Explain Dynamic characteristics in detail (any three).
- 13. Explain the construction and operation of LVDT in detail.

(or)

- 14. Explain the application of instrumentation to a nuclear power plant.
- 15. Explain the construction and working of Instrumentation Amplifier in detail.

(or)

- 16. Write short notes on (a) PLL (b) Sample and Hold Circuit.
- 17. Explain Time Division Multiplexing in detail. Compare its advantages and disadvantages with FDM.

(or)

- 18. Explain DC Telemetry system in detail with block diagram.
- 19. Explain construction and working of LCD along with its different types.

(or)

20. Write short notes on

(a) Strip chart recorder

(b) Seven segment display

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Have