

ADITYA DEGREE COLLEGES

VI SEMESTER PREFINAL EXAMINATION

III BSC-Physics(cluster)-ELECTRONIC INSTRUMENTATION
Max. Marks: 75 Time: AN

Date:

SECTION-A

I Answer Any Five questions.

5 X 5=25M

- 1. Define Accuracy, Precision and Resolution of Electronic instruments?
- 2. Write the specification of Electronic Analog Voltmeter?
- 3.Draw the block diagram of CRT and explain in short?
- 4. Explain the measurement of ac voltage and frequency using C.R.O?
- 5. Explain principle of operation of digital instruments?
- 6. Explain Frequency measurement using universal counter?
- 7. Explain the working of Pulse Generator?
- 8. Explain the working of Distortion Factor Meter?

SECTION-B

II Answer the Following questions.

5 X

10=50M

9.a) Explain the principles of measurement of DC Voltage and DC currents?

(or)

- b. Write the advantages of Electronic voltmeter over conventional voltmeter?
- 10.a) Explain the principles and Block Diagram of Electronic A.C and D.C voltmeters?

(or)

- b) Write the specifications of an Electronic voltmeter?
- 11.a)Draw the Block Diagram of CRO and explain?

(or)

- b)Draw the Block diagram of a Digital Storage Oscilloscope and explain?
- 12. a) Explain working of Digital Multimeter with Block Diagram?

- b)Explain Block diagram of a Digital voltmeter?
- 13. a) Explain Block diagram of a Signal Generator?

(or)

b) Explain the working of LCR Bridge circuit