ADITYA DEGREE COLLEGE, KAKINDA

PEFINAL EXAMINATION

B.Sc IV SEMESTER - ELECTRONICS

TOTAL TIME:3Hrs **TOTAL MARKS:75**

SECTON-A

Answer any Four questions **5 x 5=25m**

1. Explain Block diagram of OP-AMP 741

2. Write any 4 parameters of OP-AMP?

3. Explain the working of logarithmic amplifier

4. Write a short note on sine wave generator

5. Explain BCD to GRAY code converter?

6. Write SIPO Shift Register

7. Explain single slope A/D converter

8. Explain inter facing of LED

SECTON-B

Answer all questions **5 x 10=50m**

9. (a) Explain how OP-AMP can be used as Integrator & Differentiator with wave forms.

(OR)

(b) Explain inverting & Non inverting amplifier of OP-AMP and obtain expression for gain

10. (a) Explain the working of A stable Multivibrator using OP-AMP with the help of neat diagram

(OR)

(b) Draw & Explain IC 555 functional Block diagram

11. (a) Explain how to convert BCD to 7 segment

(OR)

(b) Explain the working of Universal shift register (USR)

12. (a) Explain successive approximation of A/D convertor?

(OR)

(b) Explain R-2R ladde netwone D/A converter with suitable example

13. (a) Discuss the working of Universal Asynchronous Receiver Transmitter(UART)

(OR)

(b) Explain digital clock in detail