CT Inst. of

II AL -					
II No.	1 1	2 . 2	1	1 1	
					_

Total No. of Questions: 09

Total No. of Pages: 02

B.Tech. (EE/EEE) (Sem.-4)

INSTRUMENTATION ENGINEERING

Subject Code: EE-206 Paper ID: [A0409]

Time: 3 Hrs.

Max. Marks: 60

INSTRUCTION TO CANDIDATES :

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

I. Answer briefly:

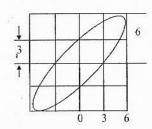
- a. Can we use same current probe for AC and DC measurement? Give reasoning to your answer.
- b. Briefly explain the principle of frequency meter.
- c. What is 3 1/2 display? Give its significance.
- d. Draw the diagram of Venturi meter to measure flow.
- Differentiate between X-Y recorder and Magnetic recorder.
- Name the various components of Data Acquisition system.
- How Ultrasonic transducer can be used to measure level?
- What is Synchronization in CRO?
- Why we use recorders?
- Differentiate between LED and LCD displays.

- 2. Draw the block diagram representation of instrume
- 3. In a CRT, distance between the vertical deflecti length of the plates is 4.5cm and the distance of of the plates is 13 inch. If the accelerating a calculate deflecting sensitivity of the tube.
- 4. Differentiate between Tuned type and Sampling ty
- 5. Write a short note on digital displays.
- 6. Explain one method to measure temperature using

SECTION-C

SECTION-B

- 7. a) Explain the construction and working principle
 - b) Why we use Phosphorus in CRT tubes? Give
 - c) Calculate the phase difference between signals for pattern.



- 8. Explain the construction and working principle with help of a neat diagram. Compare its merits types of recorders.
- 9. How can you measure pressure using Resistive, 0 transducer individually? Explain with help of diagra their merits and demerits of the transducers discu