DE COTONICO DE JUNE JUNES 18 Sub: Electronic Fostruments

10/6/02

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n. **2724–08.**

(REVISED COURSE)

CO-9793

(3 Hours)

[Total Marks: 100

	E a series in a constant of the
.: (((Question No. 1 is compulsory. Attempt any four questions out of remaining six questions. Figures to the right indicate full marks.
(a) (b) (c) (d)	State the Requirement of a good laboratory type signal generator. State the important characteristics of Instrumentation Applification

Explain the intensity modulation in C.R.O. Explain the following terms briefly related to C.R.O. -

(i) Delayed time base

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- (ii) Time/Div and Volts/Div.
- (iii) Focus and Intensity control

(iv) Post deflection acceleration.

What are Lassajous patterns? Explain with suitable diagrams how it can be used for measurement of frequency and phase.

(a) Draw a neat diagram and explain working of dual slope integrating type DVM. Also add a note on resolution and sensitivity. 10

(b) Explain with suitable block diagram of Digital phasemeter.

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Explain the working function Generator. Capable of generating pulse, sine, triangular and square wave. 10

(b) Explain the working of 3½ digital display frequency meter.

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(a) What is sensitivity of Electronic voltmeter? Discuss briefly the working of FET voltmeter. 10

(b) Explain the process of successive approximation used in 3 bit ADC. What 10 is aliasing for above.

(a) List the various temperature transducers you know. Explain any two type 10 in details.

Explain any one type of velocity transducer and level transducer.

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Write short notes on any three :-

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- (a) Digital storage CRO
- (b) R-2R ladder network DAC
- (c) Active filter

(d) Balanced modulator type phase meter

(e) Component Testing using CRO.