$(5 \times 2 = 10)$

(Following Paper ID and Roll No. to be filled in your Answer Boo

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PAPER ID: 120651	Roll No.										

EEE021

(b) What techniques are adopted to measure peak and transient over-voltages ?

(a) How are the high voltages measured using sphere gaps? What correction is applied for atmospheric conditions?

- (c) Discuss about use of CRO in measurement of high voltages and currents.
- 4. Discuss about any **two** of the following: $(5\times2=10)$
 - (a) Testing of Transformers
 - (b) Radio Interference Measurement
 - (c) Cable Testing.

B.Tech.

$(SEM.\ VI)\ THEORY\ EXAMINATION\ 2013-14$

HIGH VOLTAGE ENGINEERING

Time: 2 Hours Total Marks: 50

Note: Attempt all questions.

- 1. Attempt any **four** of the following : $(5\times4=20)$
 - (a) Discuss about Townsend's Breakdown Theory in detail.
 - (b) What do you know about Paschen's Law?
 - (c) How does a commercial liquid dielectric differ from the pure one? How does the breakdown mechanism differ in them?
 - (d) Explain the electromechanical breakdown theory for solid dielectrics.
 - (e) How does the gaseous breakdown takes place when the electrodes are pointed?
 - (f) How does the breakdown take place if the insulator is a composite solid dielectric ?
- 2. Attempt any **two** of the following: $(5\times2=10)$
 - (a) What are the different methods of generating high AC voltage? Discuss any one of them in detail.
 - (b) How are capacitors useful in generating high DC voltages?
 - (c) Discuss about generation of impulse currents.

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